

# **LABORATORY MANUAL**

# **B.Tech. Semester- IV**

# WEB TECHNOLOGIES LAB Subject code: LC-CSE-216G

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**DEPARTMENT OF CSE/CSIT/IT/IOT DRONACHARYA COLLEGE OF ENGINEERING** KHENTAWAS, FARRUKH NAGAR, GURUGRAM (HARYANA)

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# Vision and Mission of the Institute

### Vision:

To impart Quality Education, to give an enviable growth to seekers of learning, to groom them as World Class Engineers and managers competent to match the expending expectations of the Corporate World has been ever enlarging vision extending to new horizons of Dronacharya College of Engineering

### Mission:

- 1. To prepare students for full and ethical participation in a diverse society and encourage lifelong learning by following the principle of 'Shiksha evam Sahayata' i.e. Education & Help.
- 2. To impart high-quality education, knowledge and technology through rigorous academic programs, cutting-edge research, & Industry collaborations, with a focus on producing engineers& managers who are socially responsible, globally aware, & equipped to address complex challenges.
- 3. Educate students in the best practices of the field as well as integrate the latest research into the academics.
- 4. Provide quality learning experiences through effective classroom practices, innovative teaching practices and opportunities for meaningful interactions between students and faculty.
- 5. To devise and implement programmes of education in technology that are relevant to the changing needs of society, in terms of breadth of diversity and depth of specialization.

# Vision and Mission of the Department

### Vision:

"To become a Centre of Excellence in teaching and research in Information Technology for producing skilled professionals having a zeal to serve society"

### Mission:

- M1: To create an environment where students can be equipped with strong fundamental concepts, programming and problem-solving skills.
- M2: To provide an exposure to emerging technologies by providing hands on experience for generating competent professionals.
- M3: To promote Research and Development in the frontier areas of Information Technology and encourage students for pursuing higher education
- M4: To inculcate in students ethics, professional values, team work and leadership skills.

# **Programme Educational Objectives (PEOs)**

- **PEO1:** To provide students with a sound knowledge of mathematical, scientific and engineering fundamentals required to solve real world problems.
- **PEO2:** To develop research oriented analytical ability among students and to prepare them for making technical contribution to the society.
- **PEO3:** To develop in students the ability to apply state-of-the-art tools and techniques fordesigning software products to meet the needs of Industry with due consideration for environment friendly and sustainable development.
- **PEO4:** To prepare students with effective communication skills, professional ethics and managerial skills.
- **PEO5:** To prepare students with the ability to upgrade their skills and knowledge for life-long learning.

# **Programme Outcomes (POs)**

- **PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.
- **PO2: Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **PO6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

# **Program Specific Outcomes (PSOs)**

- **PSO1:** Analyze, identify and clearly define a problem for solving user needs by selecting, creating and evaluating a computer-based system through an effective project plan.
- **PSO2:** Design, implement and evaluate processes, components and/or programs using modern techniques, skills and tools of core Information Technologies to effectively integratesecure IT-based solutions into the user environment.
- **PSO3:** Develop impactful IT solutions by using research-based knowledge and research methods in the fields of integration, interface issues, security & assurance and implementation.

# **University Syllabus**

- 1. Program to calculate area using class and object.
- 2. Program to take input from command line
- 3. Program to take the input data from user using class BufferedReader.
- 4. Program in JAVA using constructor overloading to calculate volume.
- 5. Program in JAVA to calculate volume using single inheritance.
- 6. Program in JAVA to implement multiple inheritance using Interface
- 7. Program to create and import a package to calculate marks and print the grade of student.
- 8. Program to set the priority of a thread in Multithreading.
- 9. Program for handling uncaught exception using finally. 10.Program to show a face on an Applet.

10. Design and implement a simple shopping cart example with session tracking API.

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# **Course Outcomes (COs)**

Upon successful completion of the course, the students will be able to:

- C216.1: Develop static web pages using HTML
- C216.2: Develop Java programs for window/web-based applications.
- C216.3: Design dynamic web pages using JavaScript and XML.
- C216.4: Design dynamic web pages using server-side programming e.g. Servlet/JSP.
- C216.5: Design server-side applications using JDBC, ODBC and session tracking API.

# **CO-PO** Mapping

	PO1	PO2	PO3	PO4	PO5	PO6	<b>PO7</b>	PO8	PO9	PO10	PO11	PO12
C216.1	1		1		3			2	3	1	3	1
C216.2	1		3		3			2	3	1	3	1
C216.3	1		3		3			2	3	1	3	1
C216.4	1		3		3			2	3	1	3	1
C216.5	1		1		3			2	3	1	3	1
C216	1		2.2		3			2	3	1	3	1

# **CO-PSO** Mapping

	PSO1	PSO2	PSO3
C216.1	2		2
C216.2	2		2
C216.3	2		2
C216.4	2		2
C216.5	2		2
C216	2		2

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# **Course Overview**

In order to make websites look and function a certain way, web developers utilize different languages. The three core languages that make up the World Wide Web are HTML5, CSS, and JavaScript. In the IT world, the internet is an essential platform, whether its for developing or for consumer use. When developing a website, typically three main languages come into play. These languages are JavaScript, CSS, and HTML. HTML is the backbone of most webpages. Essentially, it is used to create the structure of how a specific website would look like, from the headings, to the paragraphs, the body, links, and even images.

This course is intended to teach the basics involved in publishing content on the World Wide Web. This includes the 'language of the Web' – HTML, the fundamentals of how the Internet and the Web function, a basic understanding of graphic production with a specific stress on creating graphics for the Web, and a general grounding introduction to more advanced topics such as programming and scripting. This will also expose students to the basic tools and applications used in Web publishing. The objective of this lab is to develop an ability to design and implement static and dynamic website. The courses contain web basics: Design web pages through coding using HTML and DHTML, Browser side scripting using JavaScript with a focus on, event handling and validation, server-side scripting: Php syntax, variables, loops and constructs. Java graphics, Browser side scripting: Introduction to programming world of xml technologies. Basic xml tags, database handling with php and xml, connecting to databases using php, and jdbc.

# List of Experiments mapped with COs

Si	Name of the Experiment	Course
No.		Outcome
1		C016.1
	Program to calculate area using class and object.	C216.1,
		C216.3
2	Program to take input from command line	C216.3
3	Program to take the input data from user using class BufferedReader.	C216.4
4	Program in IAVA using constructor overloading to calculate volume	C216.3
	i togram in JAVA using constructor overtoading to calculate volume.	021010
5	Program in JAVA to calculate volume using single inheritance.	C216.2
6	Program in JAVA to implement multiple inheritance using Interface	C216.3
7	Program to create and import a package to calculate marks and print the grade of	C216.5
	student.	
8	Program to set the priority of a thread in Multithreading.	C216.4
9	Program for handling uncaught exception using finally.	C216.4
10	Program to show a face on an Annlat	C216.5
10	riogram to show a face on an Applet	0210.5

# **DOs and DON'Ts**

### DOs

- 1. Login-on with your username and password.
- 2. Log off the computer every time when you leave the Lab.
- 3. Arrange your chair properly when you are leaving the lab.
- 4. Put your bags in the designated area.
- 5. Ask permission to print.

### **DON'Ts**

- 1. Do not share your username and password.
- 2. Do not remove or disconnect cables or hardware parts.
- 3. Do not personalize the computer setting.
- 4. Do not run programs that continue to execute after you log off.
- 5. Do not download or install any programs, games or music on computer in Lab.
- 6. Personal Internet use chat room for Instant Messaging (IM) and Sites is strictly prohibited.
- 7. No Internet gaming activities allowed.
- 8. Tea, Coffee, Water & Eatables are not allowed in the Computer Lab.

# **General Safety Precautions**

### **Precautions (In case of Injury or Electric Shock)**

- 1. To break the victim with live electric source, use an insulator such as fire wood or plastic to break the contact. Do not touch the victim with bare hands to avoid the risk of electrifying yourself.
- 2. Unplug the risk of faulty equipment. If main circuit breaker is accessible, turn the circuit off.
- 3. If the victim is unconscious, start resuscitation immediately, use your hands to press the chest in and out to continue breathing function. Use mouth-to-mouth resuscitation if necessary.
- 4. Immediately call medical emergency and security. Remember! Time is critical; be best.

### **Precautions (In case of Fire)**

- 1. Turn the equipment off. If power switch is not immediately accessible, take plug off.
- 2. If fire continues, try to curb the fire, if possible, by using the fire extinguisher or by covering it with a heavy cloth if possible isolate the burning equipment from the other surrounding equipment.
- 3. Sound the fire alarm by activating the nearest alarm switch located in the hallway.
- 4. Call security and emergency department immediately:

Emergency	:	Reception

Security : Front Gate

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# **Guidelines to students for report preparation**

All students are required to maintain a record of the experiments conducted by them. Guidelines for its preparation are as follows: -

1) All files must contain a title page followed by an index page. *The files will not be signed by the faculty without an entry in the index page*.

2) Student's Name, Roll number and date of conduction of experiment must be written on all pages.

3) For each experiment, the record must contain the following

- (i) Aim/Objective of the experiment
- (ii) Pre-experiment work (as given by the faculty)
- (iii) Lab assignment questions and their solutions
- (iv) Test Cases (if applicable to the course)
- $(v) \ Results / \ output$

### Note:

1. Students must bring their lab record along with them whenever they come for the lab.

2. Students must ensure that their lab record is regularly evaluated.

# Lab Assessment Criteria

An estimated 10 lab classes are conducted in a semester for each lab course. These lab classes are assessed continuously. Each lab experiment is evaluated based on 5 assessment criteria as shown in following table. Assessed performance in each experiment is used to compute CO attainment aswell as internal marks in the lab course.

Grading Criteria	Exemplary (4)	Competent (3)	Needs Improvement (2)	Poor (1)
AC1: Pre-Lab written work (this may be assessed through viva)	Complete procedure with underlined concept is properly written	Underlined concept is written but procedureis incomplete	Not able to write concept and procedure	Underlined concept is not clearly understood
AC2: Program Writing/ Modeling	Assigned problem is properly analyzed, correct solution designed, appropriate language constructs/ tools are applied, Program/solution written is readable	Assigned problem is properly analyzed, correct solution designed, appropriate language constructs/ tools are applied	Assigned problem is properly analyzed & correct solution designed	Assigned problem is properly analyzed
AC3: Identification & Removal of errors/ bugs	Able to identify errors/ bugs and remove them	Able to identify errors/ bugs and remove them with little bit of guidance	Is dependent totally on someone for identification of errors/ bugs and their removal	Unable to understand the reason for errors/ bugs even after they are explicitly pointed out
<u>AC4:</u> Executi on & Demonstratio n	All variants of input /output are tested, Solution is well demonstrated and implemented concept is clearly explained	All variants of input /output are not tested, However, solution is well demonstrated and implemented concept is clearly explained	Only few variants of input /output are tested, Solution is well demonstrated but implemented concept is not clearly explained	Solution is not well demonstrated and implemented concept is not clearly explained

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AC5:Lab Record Assessment AC5:Lab Per Usi inp	Il assigned coblems are well corded with ojective, design onstructs and olution along with erformance analysis sing all variants of put and output	More than 70 % of the assigned problems are well recorded with objective, design contracts and solution along with Performance analysis is done with all variants of input and output	Less than 70 % of the assigned problems are well recorded with objective, design contracts and solution along with Performance analysis is done with all variants of input and output	Less than 40 % of the assigned problems are well recorded with objective, design contracts and solution along with Performance analysis is done with all variants of input and output
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# LAB EXPERIMENTS

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### PROGRAM NO - 1

▶ Write a program to calculate area using class and object.

```
classroomarea
{
intlength,breadth,area;
voidgetdata(intl,int b)
{
length=l;
breadth=
b;
}
intcalarea()
{
area=length*breadth;
System.out.println("Area ="+area);
return area;
}
}
class room
{
public static void main(String args[])
{
roomarea r=new roomarea();
r.getdata(10,20);
```

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r.calarea();

```
System.out.println("Area ="+r.calarea());
```

intaa=r.calarea(); System.out.println("Area

="+aa);

}

}

<u>OUTPUT</u>



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### PROGRAM NO - 2

▶ Write a program to take input from command line.

class command line

{

public static void main(String args[])

{

intcount,i=0;

String st;

count=args.length;

System.out.println("No of arguments:"+count);

while(i<count)

{

st=args[i

];i=i+1;

System.out.println(st);

}

}

}

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### <u>OUTPUT</u>

# Cmd ficrosoft Windows [Version 5.2.3790] (C> Copyright 1985-2003 Microsoft Corp. E:\Program Files\Java\jdk\bin>javac commandline.java E:\Program Files\Java\jdk\bin>java commandline i am inderjeet singh bahl No of arguments is:5 i am inderjeet singh bahl E:\Program Files\Java\jdk\bin>\_

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### PROGRAM NO – 3

Write a program to take the input data from user using classbufferedReader.

import java.io.\*; classuserenter { public static void main(String args[])throws IOException BufferedReaderbr=new BufferedReader(new InputStreamReader(System.in)); System.out.print("enter a string:\t"); String str=br.readLine(); System.out.println("You entered"); System.out.println(str); System.out.print("enter an integer: "); inti=Integer.parseInt(br.readLine()); System.out.println("You entered"); System.out.println(i); System.out.print("enter a float:\t"); float f=Float.parseFloat(br.readLine()); System.out.println("you entered"); System.out.println(f); System.out.print("enter a double:\t"); double d=Double.parseDouble(br.readLine()); System.out.println("you entered"); System.out.println(d); } }

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### <u>OUTPUT</u>

Image: Cmd Image:

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### PROGRAM NO - 4

Write a program in JAVA using constructor overloading to calculate volume.

```
class const1
{
intl,b,h;
const1()
{
1=2:
b=3;
h=5;
}
const1(int l1,int b1,int h1)
{
l=11;
b=b1;
h=h1;
}
}
class co
{
public static void main(String args[])
       {
      const1 v=new const1();
      const1 v1=new const1(3,8,10);int
      volume=v.l*v.b*v.h;
      int volume1=v1.l*v1.b*v1.h;
      System.out.println("Volume using default constructor is "+volume);
      System.out.println("Volume using parametrized constructor is
```

"+volume1);

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### $\underline{PROGRAM NO - 5}$

Write a program in JAVA to calculate volume using single inheritance.

classabc {intl,b,h; abc() { l=2; b=3; h=7; }} class xyz extends abc { } classinharit { public static void main(String args[]) { xyz v=new xyz(); int volume=v.b\*v.l\*v.h; System.out.println("volume is "+volume); } }

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### <u>OUTPUT</u>

🔤 cmd		×
E:\Program Files\Java\jdk\bin>javac inharit.java	-	-
E:\Program Files\Java\jdk\bin>java inharit volume is 42		
E:\Program Files\Java\jdk\bin>		
		•

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### PROGRAM NO - 6

▶ Write a program in JAVA to implement multiple inheritance using Interface

```
class student{
introllno;
voidgetno(int r){
rollno=r;}
voidputno(){
System.out.println("Roll no="+ rollno);
}}
class marks extends student
{
int sub1,sub2;
voidgetmarks(int s1,int s2)
{
sub1=s1;
sub2=s2;
}
voidputmarks(){
System.out.println("Subject 1 marks="+sub1);
System.out.println("Subject 2 marks="+sub2);
}}
interface weight{
intwt=60;
voidputwt();
```

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```
}
class result extends marks implements weight
{
int total;
public void putwt()
{
System.out.println("Weight="+wt);}void
display(){ total=sub1+sub2+wt;
putno();
putmarks();
putwt();
System.out.println("Total="+total);}
}
class final1
{
public static void main(String args[]){result
r1=new result(); r1.getno(1204);
r1.getmarks(50,75);
r1.display();
}}
```

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### <u>OUTPUT</u>

🖭 cmd

E:\Program Files\Java\jdk\bin>javac final1.java

E:\Program Files\Java\jdk\bin>java final1 Roll no=1204 Subject 1 marks=50 Subject 2 marks=75 Weight=60 Total=185

E:\Program Files\Java\jdk\bin>\_

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### PROGRAM NO - 7

Write a program to create and import a package to calculate marks and print the grade of student.

```
package pack; public
class student
{
int sub1,sub2;
public void getmarks(intx,int y)
{
sub1=x;
sub2=y;
}
public void putmarks()
{
int tot=sub1+sub2;
System.out.println("total="+tot);
}
ł
```

```
import pack.*;
```

class grade extends student

{

```
char gr;
```

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```
grade(char p)
{
gr=p;
}
voidgetresult()
{
putmarks();
System.out.println("grade="+gr);
}
}
class result
{
public static void main(String args[])
{
grade r=new grade('A');
r.getmarks(60,80);
r.getresult();
}
}
```

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### <u>OUTPUT</u>

C:\WINDOWS\system32\cmd.exe C:\Documents and Settings>cd.. C:\>cd pro C:\pro>cd pack C:\pro>pack>javac Student.java Student.java:5: error: (identifier> expected public void getmarks(int x, inty> 1 error C:\pro\pack>javac Student.java C:\pro>pack>cd.. C:\pro>javac result.java C:\pro>javac result.java C:\pro>java result marks=A C:\pro>\_

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### PROGRAM NO - 8

Write a program to set the priority of a thread in Multithreading. class A extends Thread

```
{
public void run()
System.out.println("Thread A started");
for(inti=1;i<=3;i++)
{
System.out.println("Thread A"+i);
System.out.println("Exit Thread A");
class B extends Thread
public void run()
System.out.println("Thread B started");for(int
j=1;j<=3;j++)
System.out.println("Thread B"+j);
ł
System.out.println("Exit Thread B");
}
class C extends Thread
{
public void run()
System.out.println("Thread C started");for(int
k=1;k<=3;k++)
System.out.println("Thread C"+k);
}
System.out.println("Exit Thread C");
```

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```
}
classthreadtest
{
public static void main(String args[])
{
A tha=new A();B
thb=new B(); C
thc=new C();
thc.setPriority(Thread.MAX_PRIORITY);
thb.setPriority(tha.getPriority()+1);
tha.setPriority(Thread.MIN_PRIORITY);
tha.start();
thb.start();
thc.start();
}
}
```

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### <u>OUTPUT</u>

es cmd	- 🗆 🗙	
E:\Program Files\Java\jdk\bin>javac threadtest.java		
E:\Program Files\Java\jdk\bin>java threadtest Thread A started Thread B started Thread C started Thread C1 Thread C2 Thread C3 Exit Thread C Thread B1 Thread B2 Thread B3 Exit Thread B Thread A1 Thread A1 Thread A2 Thread A3		
EXIC InFeau H E:\Program Files\Java\jdk\bin>_	Ţ	

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### PROGRAM NO - 9

➢ Write a program for handling uncaught exception using finally.

import java.io.\*;

classerrhandler

```
{
public static void main(String args[])
{
try
{
DataInputStreambr=new DataInputStream(System.in);
System.out.println("Enter the String: ");
String s=br.readLine();
System.out.println("Enter a Number: ");
inti=Integer.parseInt(br.readLine());
System.out.println("String: "+s);
```

System.out.println("Number: "+i);

int a=10;

int b=15;

int c=5;

int d=a/(b-c); System.out.println("D:

```
"+d);
```

}

catch(ArithmeticException e)

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```
{
System.out.println("Arithmetic Exception Catch");
}
catch(IOException e)
{
System.out.println("IOException Catch");
}
finally
{
System.out.println("Catch all uncaught exception");
}
}
```

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### **OUTPUT**

cmd
\_\_\_\_X
E:\Program Files\Java\jdk\bin>javac errhandler.java
Note: errhandler.java uses or overrides a deprecated API.
Note: Recompile with -Xlint:deprecation for details.
E:\Program Files\Java\jdk\bin>java errhandler
Enter the String:
abcdef
Enter a Number:
123456
String: abcdef
Number: 123456
D: 1
Catch all uncaught exception
E:\Program Files\Java\jdk\bin>\_

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### PROGRAM NO - 10

➢ Write a program to show a face on an Applet.

```
/* <applet
code=face.class
width=300
height=300
>
</applet>*/
importjava.awt.*;
importjava.applet.*;
public class face extends Applet
{
public void paint(Graphics g)
{
g.drawOval(40,40,120,150);
g.setColor(Color.blue);
g.drawOval(57,75,30,20);
g.drawOval(110,75,30,20);
g.fillOval(68,81,10,10);
```

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g.fillOval(121,81,10,10);

g.drawOval(85,100,30,30);

g.setColor(Color.red);

g.fillArc(60,125,80,40,180,180);

g.drawOval(25,92,15,30);

g.drawOval(160,92,15,30);

}



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