File Handling

Lecture 23

seekp( ) and tellp( ) functions

- seekp (seek put) is a member function of ofstream class which reposition the file (put) pointer to desired location

- tellp on the other hand is a member function of ofstream class which return the current location of the put pointer

Example

```
void main()
{
  ofstream out("myfile.txt");
  out<<"testing";
  out.seekp(3);
  cout<<"Current position : "<<out.tellp();
  out<<"inserting in middle";
  out.close();
}
```

seekg( ) and tellg( )

- seekg (seek get) - member function of ifstream that reposition the get pointer to desired location

- tellg – member function of ifstream that return the current location of get pointer

Example

```
void main()
{
  clrscr();
  ifstream in("myfile.txt");
  char x;
  cout<<" File pointer position : "<<in.tellg()<<endl;
  in.seekg(3);
  while(in>>x) cout<<x;
  in.close();
  getch();
}
```

write function

- syntax

  objectname.write((const char *)(address of variable),size of variable)

read function

- syntax

  objectname.read((char *)(address of variable),size of variable)

Example

```
void main()
{ ofstream out("newfile.txt");
  char *b,*a="this is test program";
  out.write((const char *)a,strlen(a));
  out.close();
  ifstream in("newfile.txt");
  in.read(b,strlen(a));
  b[20]='\0';
  cout<<"\n b : "<<b;
  in.close();
}
```

Example

```cpp
class student
{ int age;  char
 name[20];
 public:  student() { }
 student(int x,char a[])
 { age=x;
 strcpy(name,a); }
 void display() {
 cout<<"\n Name :
"<<name; cout<<" Age
 : "<<age; }};
```

```cpp
void main()
{ student
    s1(15,"dev"),s2(12,"anuva"),s3(8,"daksh")
    ;
 ofstream f("records");
 f.write((const char *)(&s1),sizeof(student));
 f.write((const char *)(&s2),sizeof(student));
 f.write((const char *)(&s3),sizeof(student));
 f.close();
 ifstream d("records");
 student s;
 d.read((char *)(&s),sizeof(student));
 s.display();
 d.read((char *)(&s),sizeof(student));
 s.display();
 d.read((char *)(&s),sizeof(student));
 s.display();}
```

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