

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

```
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; };
```

```
void main()
{ student
    s1(15,"dev"),s2(12,"anuva"),s3(8,"da
    ksh");
    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();}
```