```
EXPERIMENT NO. 12C
 EXPERIMENTO MODIFY CONTENT OF FILE USING FILE WRITER CLASS
 mport java.io.FileWriter;
 import java.io.IOException;
 class Demo2
 toublic static void main(String[] args)
| writer f1= new FileWriter("Girija01.txt");
"Name: Girija Ambardekar Address: Ratnagiri Education: SE EXTC");
(close();
sistem.out.println("Successfully wrote to the file.");
ich(IOException e)
stem.out.println("An error occurred");
atoString();
1)
OUTPUT
student@cse15:~$ cd Girija_Ambardekar
sudent@cse15:~/Girija_Ambardekar$ cd Java
sudent@cse15:~/Girija_Ambardekar/Java$ javac Demo2.java
sudent@cse15:~/Girija_Ambardekar/Java$ java Demo2
Successfully wrote to the file.
student@cse15:~/Girija_Ambardekar/Java$
```

```
EXPERIMENT NO 7 B
PROGRAM TO ACCEPT MARKS FROM STUDENTS AND DECLARING PASS OR FAIL
import java.util. ;
public class PassFail
1
     public static void main(String() args)
           int marks;
           System.out.println("Enter score: ");
            Scanner sc=new Scanner(System.in);
            marks=sc.nextInt();
            if (marks>40)
                  System.out.println("You are Pass!");
            else {
                   System.out.println("You are fail.");
             }
       }
 }
 OUTPUT
 PS D:\Girija_Ambardekar> javac PassFail.java
 PS D:\Girija Ambardekar> java PassFail
 Enter score:
 4.5
 You are Pass!
 PS D:\Girija_Ambardekar>
```

```
EXPERIMENT NO.9(C)
PROGRAM
public class test2
{
public static void main(String args[])
String s="C++ and Java";
System.out.println("Length of String="+s.length());
System.out.println("String in Uppercase="+s.toUpperCase());
System.out.println("String in Lowercase="+s.toLowerCase());
System.out.println(s.trim());
System.out.println("Character at 6th location="+s.charAt(6));
System.out.println(s.concat("languages"));
System.out.println(s.replace("Java","Advanced Java"));
System.out.println(s.substring(3,7));
System.out.println(s.indexOf('a'));
}
OUTPUT
student@cse15:~$ cd Girija_Ambardekar
student@cse15:~/Girija_Ambardekar$ cd Java
student@cse15:~/Girija_Ambardekar/Java$ javac test2.java
student@cse15:~/Girija_Ambardekar/Java$ java test2
Length of String=12
String in Uppercase=C++ AND JAVA
String in Lowercase=c++ and java
C++ and Java
```

- - - Hon=d

```
EXPERIMENT NO 08 C
PROGRAM TO CALCULATE VOLUME OF BOX USING CONSTRUCTOR
OVERLOADING
class Box
double width, height, depth;
Box()
width=height=depth=0;
Box(double 1)
width=height=depth=l;
Box(double w,double h,double d)
width=w;
height=h;
depth=d;
double volume()
return width*height*depth;
class Volume
public static void main(String[] args)
Box bl=new Box();
Box b2=new Box(6);
Box b3=new Box(3,6,4);
System.out.println("Volume of first box="+b1.volume());
System.out.println("Volume of second box="+b2.volume());
System.out.println("Volume of third box="+b3.volume());
OUTPUT:
student@cse15:~S cd Girija_Ambardekar
student@cse15:~/Girija_AmbardekarS cd Java
student@cse15:~/Girija_Ambardekar/Java$ javac Volume.java
student@cse15:~/Girija_Ambardekar/JavaS java Volume
Volume of first box=0.0
Volume of second box=216.0
Volume of third box=72.0
student@csel5:~/Girija_Ambardekar/Java$
```

```
EXPERIMENT NO. 10A

EXPERIMENT NO. 10A

programm To DEMONSTRATE THE CONCEPT OF SINGLE INHERITANCE

class Employee

{
float salary=40000;
float salary=40000;
public static void main(String[] args)

{
Programmer p1= new Programmer();
System.out.println("Programmer salary is:"+p1.salary);
System.out.println("Bonus of programmeris:"+p1.bonus);

}
```

OUPUT

student@cse15:~\$ cd Girija_Ambardekar student@cse15:~/Girija_Ambardekar\$ cd Java student@cse15:~/Girija_Ambardekar/Java\$ javac Programmer.java student@cse15:~/Girija_Ambardekar/Java\$ java Programmer Programmer salary is:40000.0 Bonus of programmeris:10000 student@cse15:~/Girija_Ambardekar/Java\$

```
EXPERIMENT NO. 12A
EXPERIMENT THE EXCEPTION INFORMATION USING TOSTRING() METHOD PROGRAM TO PRINT THE EXCEPTION INFORMATION USING TOSTRING() METHOD
<sub>class</sub> Demo
loublic static void main(String[] args)
int a=5;
int b=0;
try
system.out.println(a/b);
Alch(ArithmeticException e)
gem.out.println(e.toString());
NTPUT
 dent@cse15:~/Girija_Ambardekar$ cd Java
```

dudent@cse15:~/Girija_Ambardekar/Java\$ javac Demo.java

sudent@cse15:~/Girija_Ambardekar/Java\$ java Demo

ava.lang.ArithmeticException: / by zero

student@cse15:~/Girija_Ambardekar/Java\$

```
EXPERIMENT NO. 11A
EXPERIMENT TO DEMONSTRATE CONCEPT OF ABSTRACT CLASS
abstract class shape
{ abstract void draw();
l class circle extends shape
void draw()
system.out.println("Drawing circle.");
class rectangle extends shape
void draw()
system.out.println("Drawing rectangle.");
class test
public static void main(String[] args)
shape s1= new circle();
s1.draw();
shape s2= new rectangle();
s2.draw();
}}
OUTPUT
student@cse15:~$ cd Girija_Ambardekar
 student@cse15:~/Girija_Ambardekar$ cd Java
 sludent@cse15:~/Girija_Ambardekar/Java$ javac test.java
 student@cse15:~/Girija_Ambardekar/Java$ java test
 Drawing circle.
 student@cse15:~/Girija_Ambardekar/Java$
 Drawing rectangle.
```

```
EXPERIMENT NO. 11B
EXPERIMENTAL EXPENSION OF SQUARE AND CIRCLE BY USING PROGRAM TO CALCULATE AREA OF SQUARE AND CIRCLE BY USING
INTERFACE
interface Area
abstract void display();
class Square implements Area
public void display()
int side=5;
int area=side*side;
System.out.println("Area of Square="+area);
class Circle implements Area
public void display()
int r=23:
float area=3.14f*r*r;
System.out.println("Area of circle="+area);
} }
class Test1
public static void main(String[] args)
Area d1= new Square();
d1.display();
Area d2= new Circle();
d2.display();
 } }
 OUTPUT
 student@cse15:~$ cd Girija_Ambardekar
 student@cse15:~/Girija_Ambardekar$ cd Java
 student@cse15:~/Girija_Ambardekar/Java$ javac Test1.java
 student@cse15:~/Girija_Ambardekar/Java$ java Test1
 Area of Square=25
 Area of circle=1661.06
 student@csel5:~/Girija_Ambardekar/JavaS
```

```
EXPERIMENT NO. 12B
 JAVA PROGRAM TO USE METHODS OF FILE CLASS
 import java.io.File;
 mport java.io.IOException;
 class Demo1
 loublic static void main(String[] args)
 tγ
 f1= new File("Girija01.txt");
 (ff.createNewFile())
 system.out.println("File created:"+f1.getName());
em.out.println("Is file readable:"+f1.canRead());
 stem.out.println("Is file writeable:"+f1.canWrite());
 sstem.out.println("Path of file:"+f1.getAbsolutePath());
 System.out.println("File size:"+f1.length());
 System.out.println("File already exists.");
 atch(IOException e)
 System.out.println("An error occurred");
 atoString():
 1}
  OUTPUT
  Vent@cse15:~$ cd Girija_Ambardekar
  student@cse15:~/Girija_Ambardekar$ cd Java
  Mudent@cse15:~/Girija_Ambardekar/Java$ javac Demo1.java
   sudent@cse15:~/Girija_Ambardekar/Java$ java Demo1
   e created:Girija01.txt
   Is file readable: true
   sfile writeable:true
   File size // Ambardekar/Java/Girija01.txt
   File size:0
   Student@cse15:~/Girija_Ambardekar/Java$
```