PROGRAM:06

```
/*program to show exception handling*/

class Error{
          public static void main(String args[])
          {
              int a=10;
              int b=5;
              int c=5;
              int x,y;
           try
           {
               x=a/(b-c);
           }
           catch(ArithmeticException e)
           {
             System.out.println("Division by zero");
           }
           y=a/(b=c);
           System.out.println("y="+y);
          }
}//CLASS ENDS
```

OUTPUT:

```
H:\HafsaJavaPrograms>javac Error.java

H:\HafsaJavaPrograms>java Error
Division by zero
y=2

H:\HafsaJavaPrograms>
```

Program:07

```
/* program to illustrate the concept of multiple inheritance*/

class Student{
  int rollnum;
  void get(int n)
  {
      rollnum=n;
  }
  void put()
  {
    System.out.println("Roll no."+rollnum);
  }
}

class test extends Student {
  float p1,p2;
  void getM(float m1,float m2)
  {
     p1=m1;
     p2=m2;
  }
  void putM()
  {
    System.out.println("marks obtained");
    System.out.println("part1=" + p1);
    System.out.println("part2=" + p2);
  }
}

interface Sports{
  float sportwt=6.0F;
  void putwt();
}

class Result extends test implements Sports{
  float total;
  public void putwt()
  {
      System.out.println("weightage of Sports="+sportwt);
  }
  void display()
    {
      total=p1+p2+sportwt;
      put();
      putM();
      putwt();
      System.out.println("total score="+total);
    }
```

```
}

class Hybrid
{
  public static void main(String args[])
  {
    Result s1=new Result();
    s1.get(1234);
    s1.getM(27.5F,33.0F);
    s1.display();
  }
}//CLASS ENDS
```

OUTPUT:

```
H:\HafsaJavaPrograms>javac Hybrid.java

H:\HafsaJavaPrograms>java Hybrid
Roll no.1234
marks obtained
part1=27.5
part2=33.0
weightage of Sports=6.0
total score=66.5

H:\HafsaJavaPrograms>
```

PROGRAM:08

```
/* program to illustrate the use of static methods*/

class StaticUse
{
          static int mul(int x,int y)
          {
           return x*y;
          }
          static int divide(int x,int y)
          {
           return x/y;
          }
}
class output
{
          public static void main(String args[])
          {
           int a=StaticUse.mul(4,3);    //called by using class name
           int b=StaticUse.divide(8,2); // called by using class name
           System.out.println("a ="+a);
           System.out.println("b ="+b);
          }
}// CLASS ENDS
```

OUTPUT:

```
H:\HafsaJavaPrograms>javac StaticUse.java

H:\HafsaJavaPrograms>java output
a =12
b =4

H:\HafsaJavaPrograms>
```