1BM19CS073 KIRAN M K

```
Program: Generics Demo
import java.util.*;
class Gener<T,U,V>
      T usn;
      U attendance;
      V cgpa;
      Gener(T n,U a,V c)
             usn = n;
             attendance = a;
             cgpa = c;
      void display()
      {
             System.out.println("========");
             System.out.println("USN of student: "+usn);
             System.out.println("Attendance = "+attendance);
             System.out.println("CGPA = :"+cgpa);
}
class GenDemo
      public static void main(String args[])
             Scanner in = new Scanner(System.in);
             String USN;
             int attd;
             double cg;
             System.out.println("Enter the USN of the student:");
             USN = in.next();
             System.out.println("Enter the attendance % of the student:");
             attd = in.nextInt();
             System.out.println("Enter the CGPA of the student:");
             cg = in.nextDouble();
             Gener<String, Integer, Double> ob = new Gener<String, Integer,
Double>(USN, attd, cg);
             ob.display();
      }
OUTPUT:
```

```
Program: Father Son Exception
import java.util.*;
class AgeException extends Exception
       public String toString()
       {
              return " Age of son and father cannot be less than 0 as well Age of the Son
cannot be more than age of father or illegal marriage ";
       }
}
class Father
{
       int fage;
       Scanner in = new Scanner(System.in);
       Father()
       {
              System.out.println("Enter the father's age");
              fage = in.nextInt();
       }
}
class Son extends Father
{
       int sage;
       Scanner in = new Scanner(System.in);
       Son()
       {
              System.out.println("Enter the son's age");
              sage = in.nextInt();
       }
class FSEx
{
       static void WrongAge(int f,int s) throws AgeException
              if(f<0 || s<0 || f-s<21)
              throw new AgeException();
              System.out.println("No logical or legal problems arised");
       }
       public static void main(String args[])
              Son ob = new Son();
              try
              {
                     WrongAge(ob.fage,ob.sage);
         catch (AgeException e)
                     System.out.println("Exception arised: " + e);
              }
       }
}
```

OUTPUT:

```
Enter the father's age
25
Enter the son's age
60
Exception arised: Age of son and father cannot be less than 0 as well Age of the Son cannot be more than age of father or illegal marriage

-----(program exited with code: 0)
Press return to continue
```