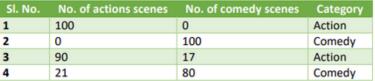# School of Computer Science Engineering and Technology

Task – Movie Category Prediction

Based on the previous steps, create a JAVA program (moviePrediction.java) for the movie category (Action/Comedy) prediction.

Train Data

Sl. No.	No. of actions scenes	No. of comedy scenes	Category
1	100	0	Action
2	0	100	Comedy
3	90	17	Action
4	21	80	Comedy

J movieprediction.java 1 ✕

J movieprediction.java > ...

```java
1    //Java Program to print the array elements using for-each loop
2    import java.util.*;
3    import java.lang.Math;
4    class movieprediction{
5        static double distance(int x1, int y1, int x2, int y2){
6            double s = Math.sqrt((x2-x1)*(x2-x1) + (y2-y1)*(y2-y1));
7            return s;
8        }
     Run | Debug
9        public static void main(String args[]){
10           Scanner sc = new Scanner(System.in);
11       int x[]={100,0,90,21};
12       //remember first and third are action
13       //remember second and fourth are comedy
14       int y[]={0,100,17,80};
15       int newpoint[]={sc.nextInt(),sc.nextInt()};
16       //double action = distance(x[0], y[0], x[2], y[2]);
17       //double comedy = distance(x[1], y[1], x[3], y[3]);
18       Vector<Double> v = new Vector<Double>();
19       for(int i=0;i<4;i++){
20           double d = distance(newpoint[0], newpoint[1], x[i], y[i]);
21           v.add(d);
22       }
23       int minimum = (int)v.indexOf(Collections.min(v));
24       //System.out.println(minimum);
25       if (minimum==1 || minimum==3){
26           System.out.println(x: "Action");}
27       else {
28           System.out.println(x: "Comedy");
29       }
30
31   }}
```

Validation Data

Sl. No.	No. of actions scene	No. of the comedy scene
1	10	90
2	79	15
3	50	50

Output

```
java -cp /tmp/FpR4PGuatH Main
50
50
Action
```

Output

```
java -cp /tmp/FpR4PGuatH Main
10
90
Action
```

Output

```
java -cp /tmp/FpR4PGuatH Main
79
15
Comedy
```