

A cab booking app is to be launched. The task is to store data of Passengers in a class with attributes Name, Mobile, distance and fare. Write mutators for

a) name – has only characters

b) mobile – 10 digits

c) distance - must be a positive value (in terms of kms)

A method to compute fare at the rate of Rs.10 per km and toString() method to print data. Modularize to package level with main () in PassengerDemo class to create an object and obtain the data through console.

```
package level;
class CabApp {
    private String name;
    private int num;
    private double distance;
    public void setA(String pname)
    {
        name=pname;
    }
    public void setB(int phone)
    {
        num=phone;
    }
    public void setC(double d)
    {
        distance=d;
    }

    public String getA()
    {
        return name;
    }
    public int getB()
    {
        return num;
    }
    public String getC()
    {
        return distance+"km";
    }
    public String fare()
    {
        return "Rs"+ distance*10;
    }
    public String toString()

    {
        String str=String.format("name:%s\n num:%s\n distance:%s\n
fare:%s\n",getA(),getB(),getC(),fare());
        return str;
    }
}
```

```

package level;
import java.util.Scanner;
public class CabDemo {
    public static void main(String args[]) {
        CabApp c =new CabApp();
        Scanner s=new Scanner(System.in);
        System.out.println("Enter the name:");
        c.setA(s.next());
        System.out.println("Enter the phone number:");
        c.setB(s.nextInt());
        System.out.println("Enter the distance:");
        c.setC(s.nextDouble());
        System.out.println(c);
    }
}

```

## OUTPUT:

The screenshot shows the Eclipse IDE with two tabs: 'CabApp.java' and 'CabDemo.java'. The 'CabDemo.java' tab is active, displaying the same code as shown in the first block. Below the code editor, the 'Console' tab is selected, showing the output of the program. The output consists of prompts for name, phone number, and distance, followed by the user's input and the final calculated fare.

```

<terminated> CabDemo [Java Application] C:\Users\91800\p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\
Enter the name:
Niranjan
Enter the phone number:
964564
Enter the distance:
20
name:Niranjan
num:964564
distance:20.0km
fare:Rs200.0

```