**Develop the logic as per the following specifications-An insurance company maintains the following data of its customers- ID, Name, premium amount and noofinstallments as private attributes. The premium Amount must have only the following values- Rs 1000, Rs 5000 and Rs 25000. The number of installments can be in the range of 1-20. Validate the data in the setters and return false if invalid data is received. Code the toString() method and write the getters. Create object in main() method to test the functionality.**

**package** iNSURANCE;

**public** **class** InsuranceCom {

**private** String ID,Name;

**private** **int** pamount,noofinstall;

**public** **void** setA(String cid)

{

ID=cid;

}

**public** **void** setB(String cname)

{

Name=cname;

}

**public** **boolean** setC(**int** premium)

{

**if**(premium==1000 || premium==5000 || premium==25000)

{

pamount=premium;

**return** **true**;

}

System.***out***.println("Invalid input!");

**return** **false**;

}

**public** **boolean** setD(**int** install)

{

**if**(install>1 && install<20 )

{

noofinstall=install;

**return** **true**;

}

System.***out***.println("Invalid input!");

**return** **false**;

}

**public** String getA()

{

**return** ID;

}

**public** String getB()

{

**return** Name;

}

**public** String getC()

{

**return** "Rs"+pamount;

}

**public** String getD()

{

**return** noofinstall+ " Times";

}

**public** String toString()

{

String str=String.*format*("Customer ID:%s%n Customer Name:%s%n Premium amount:%s%n No of installments:%s%n ",getA(),getB(),getC(),getD());

**return** str;

}

}

**package** iNSURANCE;

**import** java.util.Scanner;

**public** **class** InsuranceDemo {

**public** **static** **void** main(String[] args) {

InsuranceCom I=**new** InsuranceCom();

Scanner s=**new** Scanner(System.***in***);

System.***out***.println("Enter the customer ID=");

I.setA(s.next());

System.***out***.println("Enter the customer Name=");

I.setB(s.next());

System.***out***.println("Enter the premium ammount=");

I.setC(s.nextInt());

System.***out***.println("Enter the no of installments=");

I.setD(s.nextInt());

System.***out***.println(I);

}

}

Output: **Graphical user interface, text, application

Description automatically generated**

If we give invalid input,output will be:

Graphical user interface, text, application

Description automatically generated