



AIM: Basic programs using data types, operators, and control statements in Java.

Develop a Java application to generate Electricity bills. Create a class with the following members: Consumer no., consumer name, previous month reading, current month reading, and type of EB connection (i.e. domestic or commercial). Compute the bill amount using the following tariff.

If the type of the EB connection is domestic, calculate the amount to be paid as follows:

```
· First 100 units - Rs. 1 per unit
```

- · 101-200 units Rs. 2.50 per unit
- · 201 -500 units Rs. 4 per unit
- · >501 units Rs. 6 per unit

If the type of the EB connection is commercial, calculate the amount to be paid as follows:

```
· First 100 units - Rs. 2 per unit
```

- · 101-200 units Rs. 4.50 per unit
- · 201 -500 units Rs. 6 per unit
- > 501 units Rs. 7 per unit

```
import java.util.*;
public class Ebill
{
    public static void main (String args[])
    {
        Customerdata ob = new Customerdata();
        ob.getdata();
        ob.calc();
        ob.display();
     }
}
class Customerdata
```





```
Scanner in = new Scanner(System.in);
Scanner ins = new Scanner(System.in);
String cname, type;
int bn:
double current, previous, tbill, units;
void getdata()
System.out.print ("\n\t Enter consumer number ");
bn = in.nextInt();
System.out.print ("\n\t Enter Type of connection (D for Domestic or C for
Commercial) ");
type = ins.nextLine();
System.out.print ("\n\t Enter consumer name ");
cname = ins.nextLine();
System.out.print ("\n\t Enter previous month reading ");
previous= in.nextDouble();
System.out.print ("\n\t Enter current month reading ");
current= in.nextDouble();
void calc()
units=current-previous;
if(type.equals("D"))
if (units<=100)
tbill=1 * units;
else if (units>100 && units<=200)
tbill=2.50*units;
else if(units>200 && units<=500)
tbill= 4*units;
else
tbill= 6*units;
else
if (units<=100)
tbill= 2 * units:
else if(units>100 && units<=200)
tbill=4.50*units;
else if(units>200 && units<=500)
tbill= 6*units;
```





```
else
tbill= 7*units;
}

void display()

{
    System.out.println("\n\t Consumer number = "+bn);
    System.out.println ("\n\t Consumer name = "+cname);
    if(type.equals("D"))
    System.out.println ("\n\t type of connection = DOMESTIC ");
    else
    System.out.println ("\n\t type of connection = COMMERCIAL ");
    System.out.println ("\n\t Current Month Reading = "+current);
    System.out.println ("\n\t Previous Month Reading = "+previous);
    System.out.println ("\n\t Total units = "+units);
    System.out.println ("\n\t Total bill = RS "+tbill);
}
```





AIM: Objective: Basic programs using Arrays

Write a Java program to move all 0's to the end of an array. Maintain the relative order of the other (non-zero) array elements.

```
PROGRAM:
import java.util.*;
public class Exercise26
   public static void main(String[] args) throws Exception
      int[] array_nums = \{0,0,1,0,3,0,5,0,6\};
      int i = 0;
      System.out.print("\nOriginal array: \n");
      for (int n : array_nums)
      System.out.print(n+" ");
      for(int j = 0, l = array_nums.length; <math>j < l;)
      if(array_nums[i] == 0)
      else
            int temp = array_nums[i];
            array_nums[i] = array_nums[j];
            array_nums[j] = temp;
            i ++;
            j ++;
      while (i < array_nums.length)
      array_nums[i++] = 0;
      System.out.print("\nAfter moving 0's to the end of the array: \n");
      for (int n : array_nums)
      System.out.print(n+" ");
            System.out.print("\n");
INPUT DATA:
```





AIM: Basic programs using Strings

Write a Java program to find the first non-repeating character in a string

PROGRAM:

```
import java.util.*;
public class Main
      public static void main(String[] args)
      String str1 = "gibblegabbler";
      System.out.println("The given string is: " + str1);
      for (int i = 0; i < str1.length(); i++)
      boolean unique = true;
      for (int j = 0; j < str1.length(); j++)
      if (i != j && str1.charAt(i) == str1.charAt(j))
      unique = false;
      break;
  if (unique)
       System.out.println("The first non repeated character in String is: " +
      str1.charAt(i));
  break;
INPUT DATA:
```





AIM: Object Oriented Programming Concepts: Problem on the use of constructors, inheritance

Declare a class employee having emp_id and empname as members. Extend class employee (inheritance) to have a subclass called salary having designation and monthly_salary as members. Define the following:

- Required constructors.
- A method to find and display all details of employee drawing salary more than 20000/-.
- Method main for creating an array for storing these details given as command line argument and showing usage of above methods.text.

```
import java.util.Scanner;
class Employee
{
  String[] employee_id;
  String[] employee_name;
}

class Salary extends Employee
{
  String[] Designation;
  double[] monthly_salary;

  Salary(int j)
  {
    /*initialization of array */
    employee_name=new String[j];
    employee_id=new String[j];
    Designation=new String[j];
    monthly_salary= new double[j];
}
```





```
void display(int j)
 System.out.println("-----");
System.out.println("-----");
 System.out.println("\t Details of employee who have salary above 20000");
 System.out.println("------");
System.out.println("-----\n
\n");
 System.out.format("%-15s %-15s %-25s %-10s %n", "employee id", "employee
name", "employee Designation", "Monthly Salary");
 System.out.println("------
----");
 for(int i=0;i<j;i++)
 if(monthly_salary[i]>=20000)
  System.out.format("%-15s %-15s %-25s %-10s
%n",employee_id[i],employee_name[i],Designation[i],monthly_salary[i]);
public static void main(String [] args)
 Scanner jaimin=new Scanner(System.in);
 int length=args.length;
 Salary obj = new Salary(length);
 if(length==0)
 System.out.println("please enter employee id");
 for(int i=0;i<length;i++)
  obj.employee_id[i]=args[i];
```





```
System.out.println("\n\n enter the details of \""+args[i]+"\" employee id");

System.out.print("\n name of employee -->");
obj.employee_name[i]=jaimin.next();

System.out.print("\n Designation of employee -->");
obj.Designation[i]=jaimin.next();

System.out.print("\nMonthly salary of employee -->");
obj.monthly_salary[i]=jaimin.nextDouble();

}
obj.display(length);
}
```





AIM: Object Oriented Programming Concepts: Problem on the use of Method Overloading and Overriding

Write a JAVA program to represent Method Overloading and Overriding.

```
package com.techvidvan.methodoverriding;
public class Addition
int add(int a, int b)
return (a + b);
int add(int a, int b, int c)
return (a + b + c);
double add(double a, double b)
return (a + b);
double add(int a, double b)
return (a + b);
public static void main(String args[])
Addition ob = new Addition();
System.out.println("Calling add method with two int parameters: " +ob.add(17,
25));
System.out.println("Calling add method with three int parameters: "
+ob.add(55, 27, 35));
System.out.println("Calling add method with two double parameters: "
+ob.add(36.5, 42.8));
System.out.println("Calling add method with one int and one double
parameter: " +ob.add(11, 24.5));
```





```
package com.techvidvan. methodoverriding;
//Base Class
class Parent
      void view()
      System.out.println("This is a parent class method");
class Child extends Parent
      @Override
      void view()
      System.out.println("This is a child class method");
      //Driver class
      public class MethodOverriding
      public static void main(String args[])
      Parent obj = new Parent();
      obj.view();
      Parent obj1 = new Child();
      obj1.view();
```





AIM: Object Oriented Programming Concepts: Problem on the use of Garbage collection

Write a JAVA program to represent Garbage Collection

```
class Employee
  private int ID;
  private String name;
  private int age;
  private static int nextId = 1;
  // it is made static because it
  // is keep common among all and
  // shared by all objects
  public Employee(String name, int age)
     this.name = name;
     this.age = age;
     this.ID = nextId++;
  public void show()
     System.out.println("Id=" + ID + "\nName=" + name
                  + "\nAge=" + age);
  public void showNextId()
     System.out.println("Next employee id will be="
                  + nextId);
  protected void finalize()
     --nextId;
     // In this case,
     // gc will call finalize()
     // for 2 times for 2 objects.
```





```
public class UseEmployee
  public static void main(String[] args)
     Employee E = new Employee("GFG1", 56);
     Employee F = new Employee("GFG2", 45);
     Employee G = new Employee("GFG3", 25);
     E.show();
     F.show();
     G.show();
     E.showNextId();
     F.showNextId();
     G.showNextId();
       // It is sub block to keep
       // all those interns.
       Employee X = new Employee("GFG4", 23);
       Employee Y = new Employee("GFG5", 21);
       X.show();
       Y.show();
       X.showNextId();
       Y.showNextId();
       X = Y = null;
       System.gc();
       System.runFinalization();
     E.showNextId();
```





AIM: Object Oriented Programming Concepts: Problem on the use of Polymorphism

Write a JAVA program to represent the concept of polymorphism.

```
PROGRAM:
```

```
import java.util.*;
public class ExceptionDemo
   static void func(int a,int b) throws ArithmeticException,
   ArrayIndexOutOfBoundsException
   System.out.println(10/a);
   int[] arr={1,2,3};
  System.out.println(arr[b]);
public static void main (String[] args)
         Scanner in=new Scanner(System.in);
         for(int i=0; i<3; i++)
         Try
            func(in.nextInt(),in.nextInt());
         catch(ArithmeticException e)
           System.out.println("can't divide by zero");
           catch(ArrayIndexOutOfBoundsException e)
```





```
System.out.println("Out of bounds!");
}
}
}
```





AIM: Programs involving: Exception handling

Write a Java program to create multiple Exceptions.

```
import java.util.*;
public class ExceptionDemo
      static void func(int a,int b) throws ArithmeticException,
      ArrayIndexOutOfBoundsException
              System.out.println(10/a);
              int[] arr={1,2,3};
              System.out.println(arr[b]);
      public static void main (String[] args)
            Scanner in=new Scanner(System.in);
            for(int i=0; i<3; i++){
            try
               func(in.nextInt(),in.nextInt());
            catch(ArithmeticException e)
              System.out.println("can't divide by zero");
            catch(ArrayIndexOutOfBoundsException e)
              System.out.println("Out of bounds!");
```









AIM: Programs involving: Threads and Multiple threads

Write a Java program to create multiple threads in Java. Explain all thread methods with examples.

```
class ThreadTest extends Thread
   private Thread thread;
   private String threadName;
   ThreadTest( String msg)
        threadName = msg;
        System.out.println("Creating thread: " + threadName);
   public void run()
        System.out.println("Running thread: " + threadName);
        try
            for(int i = 0; i < 5; i++)
                System.out.println("Thread: " + threadName + ", " + i);
                Thread.sleep(50);
        catch (InterruptedException e)
            System.out.println("Exception in thread: " + threadName);
        System.out.println("Thread " + threadName + " continue...");
   public void start ()
        System.out.println("Start method " + threadName);
       if (thread == null)
```





```
thread = new Thread (this, threadName);
thread.start ();
}

public class MultipleThread

public static void main(String args[])

ThreadTest thread1 = new ThreadTest( "First Thread");
thread1.start();

ThreadTest thread2 = new ThreadTest( "Second Thread");
thread2.start();
}
```





Experiment 10

AIM: Programs involving: Packages in Java

```
Program 1
import java.io.File;
import java.io.IOException;
import java.util.Scanner;
class Progpackage
     public static void main(String[] args)
          try
                File r=new
                data\\scanner.txt");
                Scanner sc=new Scanner(r);
                while(sc.hasNextLine())
                     System.out.println("this is my first \" \"program");
                     System.out.println(sc.nextLine());
          catch(IOException e)
                System.out.println(e);
INPUT DATA:
```









Experiment 11

AIM: Programs involving: Interfaces in Java

```
PROGRAM 1:
interface Customer
     int amt=5; //public+static+final
     void purchase(); //public+abstract
class seller implements Customer
     @Override
     public void purchase()
           System.out.println("final amount"+""+amt);
class Intefacevariable
           public static void main(String[] args)
           Customer c=new seller();
           c.purchase();
           System.out.println(Customer.amt);
INPUT DATA:
```





```
Program 2:
interface A
      void add();
interface B extends A
      void sub();
class java implements B
      //@override
      public void add()
            int a=10, b=20,c;
            c=a+b;
            System.out.println("Addition"+c);
      //@override
      public void sub()
            int a=10, b=20,c;
            c=a-b;
            System.out.println("Subtraction"+c);
      class main
            public static void main(String[] args) {
                  B r=new java();
                  r.add();
                  r.sub();
INPUT DATA:
```





Experiment 12

AIM: GUI Programming in Java

PROGRAM 1:

Create a program using java swing to demonstrate a table with the following fields: name, roll number, department. Use JTable

The JTable class is a part of Java Swing Package and is generally used to display or edit two-dimensional data that is having both rows and columns. It is similar to a spreadsheet. This arranges data in a tabular form. Constructors in JTable:

- 1. JTable(): A table is created with empty cells.
- 2. JTable(int rows, int cols): Creates a table of size rows * cols.
- 3. JTable(Object[][] data, Object []Column): A table is created with the specified name where []Column defines the column names.

Functions in JTable:

- 1. addColumn(TableColumn []column) : adds a column at the end of the JTable.
- 2. clearSelection(): Selects all the selected rows and columns.
- 3. editCellAt(int row, int col) : edits the intersecting cell of the column number col and row number row programmatically, if the given indices are valid and the corresponding cell is editable.
- 4. setValueAt(Object value, int row, int col) : Sets the cell value as 'value' for the position row, col in the JTable.

Below is the program to illustrate the various methods of JTable:

Java

```
// Packages to import
import javax.swing.JFrame;
import javax.swing.JScrollPane;
import javax.swing.JTable;

public class JTableExamples
{
    // frame
    JFrame f;
    // Table
```





```
JTable j;
// Constructor
JTableExamples()
   // Frame initialization
   f = new JFrame();
   // Frame Title
   f.setTitle("JTable Example");
   // Data to be displayed in the JTable
   String[][] data =
     { "Kundan Kumar Jha", "4031", "CSE" },
     { "Anand Jha", "6014", "IT" }
};
   // Column Names
   String[] columnNames = { "Name", "Roll Number", "Department" };
   // Initializing the JTable
   j = new JTable(data, columnNames);
  j.setBounds(30, 40, 200, 300);
   // adding it to JScrollPane
   JScrollPane sp = new JScrollPane(j);
   f.add(sp);
   // Frame Size
   f.setSize(500, 200);
   // Frame Visible = true
   f.setVisible(true);
// Driver method
public static void main(String[] args)
   new JTableExamples();
```





Program 2:

Create a program using java swing, to demonstrate how the basic registration form looks like.

Swing is a part of the JFC (Java Foundation Classes). Building Graphical User Interface in Java requires the use of Swings. Swing Framework contains a large set of components which allow a high level of customization and provide rich functionalities, and is used to create window-based applications. Java swing components are lightweight, platform-independent, provide powerful components like tables, scroll panels, buttons, list, color chooser, etc.

In this article, we'll see how to make a Registration form which includes all the buttons and field in one Form.

Steps:

1. Create a Java file that contains the main class – Registration. This class will only contain the main method to invoke the required methods. class Registration {

- 2. Create another class MyFrame, which will contain the form.
- 3. In this MyFrame Class, the methods to be made are:
- Components like JLabel, JTextField, JRadioButton, ButtonGroup, JComboBox, and JTextArea. These components will collectively form the Registration form.
- A constructor, to initialize the components with default values.
- A method actionPerformed() to get the action performed by the user and act accordingly.
- 4. Copy the code of MyFrame class from below.
- 5. Save the file as Registration.java
- 6. Compile the file by using javac command. javac Registration.java
- 7. Run the program by calling the main class





java Registration Below is the code to implement the Simple Registration Form using Java Swing:

```
Java
// Java program to implement
// a Simple Registration Form
// using Java Swing
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
class MyFrame
  extends JFrame
  implements ActionListener {
  // Components of the Form
  private Container c;
  private JLabel title;
  private JLabel name;
  private JTextField tname;
  private JLabel mno;
  private JTextField tmno;
  private JLabel gender;
  private JRadioButton male;
  private JRadioButton female;
  private ButtonGroup gengp;
  private JLabel dob;
  private JComboBox date;
  private JComboBox month;
  private JComboBox year;
  private JLabel add;
  private JTextArea tadd;
  private JCheckBox term;
  private JButton sub;
  private JButton reset;
  private JTextArea tout;
  private JLabel res;
  private JTextArea resadd;
  private String dates[]
     = { "1", "2", "3", "4", "5",
```





```
"6", "7", "8", "9", "10",
     "11", "12", "13", "14", "15",
     "16", "17", "18", "19", "20",
     "21", "22", "23", "24", "25".
     "26", "27", "28", "29", "30",
     "31" };
private String months[]
  = { "Jan", "feb", "Mar", "Apr",
     "May", "Jun", "July", "Āug",
     "Sup", "Oct", "Nov", "Dec" };
private String years[]
  = { "1995", "1996", "1997", "1998",
     "1999", "2000", "2001", "2002",
     "2003", "2004", "2005", "2006",
     "2007", "2008", "2009", "2010", "2011", "2012", "2013", "2014",
     "2015", "2016", "2017", "2018",
     "2019" };
// constructor, to initialize the components
// with default values.
public MyFrame()
  setTitle("Registration Form");
  setBounds(300, 90, 900, 600);
  setDefaultCloseOperation(EXIT_ON_CLOSE);
  setResizable(false);
  c = getContentPane();
  c.setLayout(null);
  title = new JLabel("Registration Form");
  title.setFont(new Font("Arial", Font.PLAIN, 30));
  title.setSize(300, 30);
  title.setLocation(300, 30);
  c.add(title);
  name = new JLabel("Name");
  name.setFont(new Font("Arial", Font.PLAIN, 20));
  name.setSize(100, 20);
  name.setLocation(100, 100);
  c.add(name);
```





```
tname = new JTextField();
tname.setFont(new Font("Arial", Font.PLAIN, 15));
tname.setSize(190, 20);
tname.setLocation(200, 100);
c.add(tname);
mno = new JLabel("Mobile");
mno.setFont(new Font("Arial", Font.PLAIN, 20));
mno.setSize(100, 20);
mno.setLocation(100, 150);
c.add(mno);
tmno = new JTextField();
tmno.setFont(new Font("Arial", Font.PLAIN, 15));
tmno.setSize(150, 20);
tmno.setLocation(200, 150);
c.add(tmno);
gender = new JLabel("Gender");
gender.setFont(new Font("Arial", Font.PLAIN, 20));
gender.setSize(100, 20);
gender.setLocation(100, 200);
c.add(gender);
male = new JRadioButton("Male");
male.setFont(new Font("Arial", Font.PLAIN, 15));
male.setSelected(true);
male.setSize(75, 20);
male.setLocation(200, 200);
c.add(male);
female = new JRadioButton("Female");
female.setFont(new Font("Arial", Font.PLAIN, 15));
female.setSelected(false);
female.setSize(80, 20);
female.setLocation(275, 200);
c.add(female);
gengp = new ButtonGroup();
gengp.add(male);
gengp.add(female);
```





```
dob = new JLabel("DOB");
dob.setFont(new Font("Arial", Font.PLAIN, 20));
dob.setSize(100, 20);
dob.setLocation(100, 250);
c.add(dob);
date = new JComboBox(dates);
date.setFont(new Font("Arial", Font.PLAIN, 15));
date.setSize(50, 20);
date.setLocation(200, 250);
c.add(date);
month = new JComboBox(months);
month.setFont(new Font("Arial", Font.PLAIN, 15));
month.setSize(60, 20);
month.setLocation(250, 250);
c.add(month);
year = new JComboBox(years);
year.setFont(new Font("Arial", Font.PLAIN, 15));
year.setSize(60, 20);
year.setLocation(320, 250);
c.add(year);
add = new JLabel("Address");
add.setFont(new Font("Arial", Font.PLAIN, 20));
add.setSize(100, 20);
add.setLocation(100, 300);
c.add(add);
tadd = new JTextArea();
tadd.setFont(new Font("Arial", Font.PLAIN, 15));
tadd.setSize(200, 75);
tadd.setLocation(200, 300);
tadd.setLineWrap(true);
c.add(tadd);
term = new JCheckBox("Accept Terms And Conditions.");
term.setFont(new Font("Arial", Font.PLAIN, 15));
term.setSize(250, 20);
term.setLocation(150, 400);
```





```
c.add(term);
  sub = new JButton("Submit");
  sub.setFont(new Font("Arial", Font.PLAIN, 15));
  sub.setSize(100, 20);
  sub.setLocation(150, 450);
  sub.addActionListener(this);
  c.add(sub);
  reset = new JButton("Reset");
  reset.setFont(new Font("Arial", Font.PLAIN, 15));
  reset.setSize(100, 20);
  reset.setLocation(270, 450);
  reset.addActionListener(this);
  c.add(reset);
  tout = new JTextArea();
  tout.setFont(new Font("Arial", Font.PLAIN, 15));
  tout.setSize(300, 400);
  tout.setLocation(500, 100);
  tout.setLineWrap(true);
  tout.setEditable(false);
  c.add(tout);
  res = new JLabel("");
  res.setFont(new Font("Arial", Font.PLAIN, 20));
  res.setSize(500, 25);
  res.setLocation(100, 500);
  c.add(res);
  resadd = new JTextArea();
  resadd.setFont(new Font("Arial", Font.PLAIN, 15));
  resadd.setSize(200, 75);
  resadd.setLocation(580, 175);
  resadd.setLineWrap(true);
  c.add(resadd);
  setVisible(true);
// method actionPerformed()
// to get the action performed
```





```
// by the user and act accordingly
public void actionPerformed(ActionEvent e)
  if (e.getSource() == sub) {
     if (term.isSelected()) {
        String data1;
        String data
           = "Name : "
            + tname.getText() + "\n"
            + "Mobile:"
            + tmno.getText() + "\n";
        if (male.isSelected())
           data1 = "Gender : Male"
                + "\n";
        else
           data1 = "Gender : Female"
                + "\n";
        String data2
           = "DOB:"
            + (String)date.getSelectedItem()
            + "/" + (String)month.getSelectedItem()
            + "/" + (String)year.getSelectedItem()
            + "\n";
        String data3 = "Address: " + tadd.getText();
        tout.setText(data + data1 + data2 + data3);
        tout.setEditable(false);
        res.setText("Registration Successfully..");
     }
     else {
        tout.setText("");
        resadd.setText("");
        res.setText("Please accept the"
                + " terms & conditions..");
  else if (e.getSource() == reset) {
     String def = "";
     tname.setText(def);
     tadd.setText(def);
     tmno.setText(def);
```





```
res.setText(def);
    tout.setText(def);
    term.setSelected(false);
    date.setSelectedIndex(0);
    month.setSelectedIndex(0);
    year.setSelectedIndex(0);
    resadd.setText(def);
}

// Driver Code
class Registration {
    public static void main(String[] args) throws Exception
    {
        MyFrame f = new MyFrame();
     }
}
```

1. Compile:





```
rishab@rishabh-h81m-s:~

File Edit View Search Terminal Help

rishab@rishabh-h81m-s:~$ javac Registration.java

Note: Registration.java uses unchecked or unsafe operations.

Note: Recompile with -Xlint:unchecked for details.

rishab@rishabh-h81m-s:~$ java Registration
```

2. Registration Form unfilled:





Registration Form			
Registration Form			
Name			
Mobile			
Gender Male	e		
DOB 1 ▼	Jan ▼ 19▼		
Address			
Accept Terms And Conditions.			
Submit	Reset		

3. Registration Form filled:





Registration Form				
Registration Form				
Name	GeeksForGeeks	Name : GeeksForGeeks Mobile : 123546789		
Mobile	123546789	Gender : Male DOB : 1/Jan/1995 Address : Sector-136, Noida		
Gender	Male			
DOB	1 ▼ an ▼ 19 ▼			
Address	Sector-136, Noida			
∠ Ac	cept Terms And Conditions.			
Submit Reset				
Registrat	cion Successfully			





Experiment 13

AIM: Programs involving: Database connectivity in Java

Write a program to implement Create, and Retrieve operations for the registration of Student details using JDBC, HSQLDB.

```
PROGRAM 1:
import java.sql.*;
import java.util.*;
public class JDBCcallablestatement
      public static void main(String[] args)
            try
                  //load the driver
                  Class.forName("com.mysql.jdbc.Driver");
                  //creating a connection
                  String url="jdbc:mysql://localhost:3306/javasql";
                  String uname="root";
                  String pass="dsu@22";
                  Connection con=DriverManager.getConnection(url, uname,
pass);//cannot create the object for connection interface
                  CallableStatement cs=con.prepareCall("{call
callableStmtSP(?,?,?)}");
                  Scanner sc=new Scanner(System.in);
                  System.out.println("Enter tId");
                  int a=sc.nextInt();
                  System.out.println("Enter tName");
                  String b=sc.next();
                  System.out.println("Enter tCity");
```





```
String c=sc.next();
                  cs.setInt(1,a);
                  cs.setString(2, b);
                  cs.setString(3, c);
                  cs.execute();
                  con.close();
            catch(Exception e)
                  e.printStackTrace();
INPUT DATA:
OUTPUT DATA:
Program 2
import java.sql.*;
import java.io.*;
class JDBCdynamicstatement
      public static void main(String[] args)
            try
```

//load the driver





 ${\it Class. for Name ("com.mysql.jdbc.Driver");\ //for name\ method\ throws\ an\ exception}$

```
//creating a connection
                  String url="jdbc:mysql://localhost:3306/javasql";
                  String uname="root";
                  String pass="dsu@22";
                  Connection con=DriverManager.getConnection(url, uname,
pass);//cannot create the object for connection interface
                  //create a query
                  String q="insert into table1(tName, tCity) values (?,?)";
                  //get the PreparedStatement Object
                  PreparedStatement pstmt=con.prepareStatement(q);
                  BufferedReader br=new BufferedReader(new
InputStreamReader(System.in));
                  System.out.println("Enter name :");
                  String name=br.readLine();
                  System.out.println("Enter city:");
                  String city=br.readLine();
                  //Set the values to the query
                  pstmt.setString(1, name);
                  pstmt.setString(2, city);
                  pstmt.executeUpdate();
                  System.out.println("inserted...");
                  con.close();
            catch(Exception e)
                  e.printStackTrace();
```