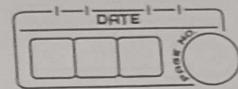


1] write a program to check whether a number is odd or even

```
import java.util.Scanner;  
public class oddeven {  
    public static void main (String [] args) {  
        Scanner scanner = new Scanner (System.in);  
        System.out.print ("Enter a number : ");  
        int number = scanner.nextInt ();  
        if (number % 2 == 0) {  
            System.out.println (number + " is an Even number.");  
        } else {  
            System.out.println (number + " is an odd number.");  
        }  
        scanner.close ();  
    }  
}
```

output

Enter a number : 13.
13 is a odd number.



2] write a java program to find maximum among two numbers.

Import java.util.Scanner;

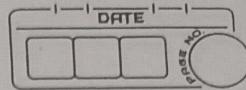
```
public class maximum {  
    public static void main (String args []);  
    {  
        Scanner scanner = new Scanner (System.in);  
        System.out.print ("Enter the first number :");  
        Int num1 = scanner.nextInt ();  
        System.out.print ("Enter the second number :");  
        Int num2 = scanner.nextInt ();  
        Int max = (num1 > num2) ? num1 : num2;  
        System.out.println ("The maximum of " + num1 + " and "  
            " + num2 + " is : " + max);  
        scanner.close ();  
    }  
}
```

Output

Enter the first number = 11

Enter the second number = 24

The maximum of 11 & 24 = 24.



3] write a java program to find factorial of a number.

```
import java.util.Scanner;  
public class factorial {  
    public static void main (String args [] ) {  
        Scanner scanner = new Scanner (System.in)  
        System.out.print ("Enter a number : ");  
        int number = scanner.nextInt ();  
        long factorial = 1;  
        for (int i = 1; i <= number; i++) {  
            factorial *= i;  
        }  
        System.out.println ("Factorial of " + number + " is " +  
                           factorial);  
        scanner.close ();  
    }  
}
```

output.

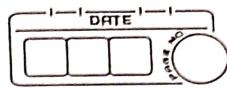
```
Enter A number = 4.  
factorial of 4 is = 24.
```

4] write a java program to display tibonici series.

```
import java.util.Scanner;  
public class tibonici {  
    public static void main (String args []) {  
        Scanner scanner = new Scanner (System.in);  
        System.out.print ("Enter a no of terms : ");  
        int n = scanner.nextInt ();  
        int first = 0; second = 1;  
        System.out.print ("Fibonacci Series : "+first+" "+second);  
        for (int i=2 ; i<n ; i++) {  
            int next = first + second;  
            System.out.print (" "+next);  
            first = second;  
            second = next;  
        }  
        System.out.println ();  
        scanner.close ();  
    }  
}
```

output:

Enter the no. of terms : 5
Fibonacci Series : 0, 1, 1, 2, 3,



c) write a program in java to check number is positive or negative.

```
import java.util.Scanner  
public class positivenegative {  
    public static void main (String args [] ) {  
        Scanner scanner = new Scanner (System.in);  
        System.out.print ("Enter a number" );  
        int number = scanner.nextInt ();  
        if (number > 0) {  
            System.out.println (number + " is a positive number ");  
        } else if (number < 0) {  
            System.out.println (number + " is a negative number ");  
        } else {  
            System.out.println ("The number is zero ");  
        }  
        scanner.close ();  
    }  
}
```

output.

```
Enter a number : 30  
30 is a positive number
```



5] write a program to check whether number is palindrome or not.

Import java.util.Scanner;

public class Palindrome{

 public static void main (String args []){

 Scanner scanner = new Scanner (System.in);

 System.out.println ("Enter the number : ");

 Int number = scanner.nextInt ();

 Int originalNumber = number;

 Int reverse = 0;

 while (number > 0) {

 Int digit = number % 10 ;

 reverse = reverse * 10 + digit;

 number /= 10 ;

 }

 if (originalNumber == reverse) {

 System.out.println (originalNumber + " is a palindrome.");

 } else {

 System.out.println (originalNumber + " is not a palindrome.");

 }

 scanner.close ();

 }

}

Enter a number : 121.

121 is a palindrome.

FOR EDUCATIONAL USE



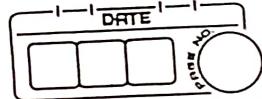
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INDUSTRIES

10] write a java program on parameterized constructor

```
import java.util.*;  
class student {  
    int id;  
    String name;  
    student (int i, String n) {  
        id = i;  
        name = n;  
    }  
    void display () {  
        System.out.println (id + " " + name);  
    }  
}  
public class main {  
    public static void main (String args[]) {  
        student s1 = new student (11, "Aditya");  
        student s2 = new student (12, "Atharva");  
        s1.display ();  
        s2.display ();  
    }  
}
```

output

11 Aditya.
12 Atharva.



g] write a java program on default constructor

Import java.util.io;

class Bike {

Bike () { System.out.println ("Bike is created"); }

}

public class main {

public static void main (String args []) {

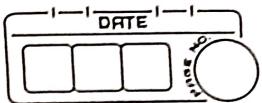
Bike b = new Bike ();

}

}

Output

Bike is created



8] write a program to illustrate use of static block.

```
import java.io.*;
class A2
{
    static {
        System.out.println ("static block is invoked");
    }
    public static void main (String args[])
    {
        System.out.println ("Hello main");
    }
}
```

static block is invoked
Hello main

Q) write a java program on copy constructor

```

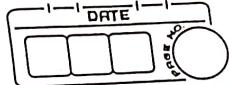
class student {
    int id;
    String name;
    student (int i & string n) {
        id = s.id;
        name = s.name;
    }
    void display () {
        System.out.println (id + " " + name);
    }
}
public static void main (String args []) {
    student s1 = new student (111, "om");
    student s2 = new student (s1);
    s1.display ();
    s2.display ();
}

```

output

111 om

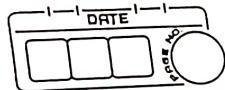
111 om.



Q) write a swing program for login window.

```
import javax.swing.*;  
public class SwingAPP {  
    swingAPP () {  
        JFrame f = new JFrame ();  
        JLabel FirstName = new JLabel ("First Name");  
        FirstName.setBounds (20, 50, 80, 20);  
  
        JLabel LastName = new JLabel ("Last Name");  
        LastName.setBounds (20, 80, 80, 20);  
  
        JLabel dob : new JLabel ("Date of Birth");  
        dob.setBounds (20, 110, 80, 20);  
  
        JTextField FirstNameTF = new JTextField ();  
        FirstNameTF.setBounds (120, 50, 100, 20);  
  
        JTextField LastNameTF = new JTextField ();  
        LastNameTF.setBounds (120, 80, 100, 20);  
  
        JTextField dobTF = new JTextField ();  
        dobTF.setBounds (120, 110, 100, 20);  
  
        JButton sbmt = new JButton ("Submit");  
        sbmt.setBounds (20, 150, 100, 30);  
  
        JButton reset = new JButton ("Reset");  
        reset.setBounds (120, 150, 100, 30);
```

FOR EDUCATIONAL USE



```
f.add (FirstName);
t.add (LastName);
t.add (dob);
t.add (FirstNameTF);
f.add (LastNameTF);
t.add (dob);
F.add (sbmt);
t.add (reset);
F.setSize (300,300);
F.setLayout (null);
t.setVisible (true);
```

```
}
```

```
public static void main (String [] args) {
    SwingAPPS = new SwingAPP ();
}
```

```
}
```

output

| | | |
|-----------------|-------|--|
| first Name - | | |
| Last Name - | | |
| Date of Birth - | | |
| Submit | Reset | |

Java program to draw a smiley using Java Applet.

```
import java.applet.*;  
import java.awt.*;
```

```
public class smiley extends Applet {  
    public void paint (Graphics g)
```

```
    {  
        g.drawoval (80,70,150,150);  
        g.setColor (Color.Black);  
        g.filloval (120,120,15,15);  
        g.filloval (170,120,15,15);
```

```
        g.drawarc (130,180,50,20,180,180);  
    }
```

```
}
```

Output

```
add (firstName);  
add (lastName);  
add (dob);  
add (firstNameTF);  
add (lastNameTF);  
add (dobTF);  
add (sbmt);  
add (reset);  
setSize (300,300);  
setLayout (null);  
setVisible (true);
```

```
}
```

```
public static void main (String [] args) {  
    AwtAPP.awt = new AwtAPP ();
```

```
}
```

output -

first Name

last Name

Date of Birth

submit

Reset

13] write a awt program for login window.

```
import java.awt.*;
public class AwtApp extends Frame {
    AwtApp () {
        Label FirstName = new Label ("First Name");
        FirstName.setBounds (20, 50, 80, 20);
        Label LastName = new Label ("Last Name");
        LastName.setBounds (20, 80, 80, 20);
    }
}
```

```
Label dob = new Label ("Date of birth");
dob.setBounds (20, 110, 80, 20);
```

```
TextField FirstNameTF = new TextField ();
FirstNameTF.setBounds (120, 50, 100, 20);
```

```
TextField LastNameTF = new TextField ();
LastNameTF.setBounds (120, 80, 100, 20);
```

```
TextField dobTF = new TextField ();
dobTF.setBounds (120, 110, 100, 20);
```

```
Button sbmt = new Button ("submit");
sbmt.setBounds (20, 140, 100, 30);
```

```
Button reset = new Button ("reset");
reset.setBounds (120, 140, 100, 30);
```