# **DAY -1 PROGRAMMAS**

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1. Write a java program to print "helloworld".

Program:-

```
class hloworld
{
   public static void main(String[] args)
   {
       System.out.println("hello world");
       int a=10,b=20,c;
       c=a+b;
       System.out.println("output:"+c);
   }
}
```

```
Run:

| Noworld × | Noworld ×
```

2. Write a java program to find simple interest.

Program:-

```
class si
{
    public static void main(String[] args)
    {
        double p = 100000, t = 3, r = 3.5, si;
        si = (p * t * r) / 100;
        System.out.println("simple intrest:" + si);
    }
}
```

```
Run: si x

To:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Educational Edition 2022.2.2\lib\idea_rt.jar=5

simple intrest:10500.0
```

3. Write a java program to read input from user to perform addition of two numbers.

```
import java.util.*;
class twad {
    public static void main(String args[])
    {
        int a, b, c;
        Scanner s = new Scanner(System.in);
        System.out.println("enter the two numbers:");
        a = s.nextInt();
        b = s.nextInt();
        c = a + b;
        System.out.println("output:"+c);
    }
}
```

4.Implement a java program to convert celcius to Fahrenheit.

```
Program:- class temp
{
    public static void main(String args[])
    {
        float f,c;
        c=13;
        f = ((c*9)/5)+32;
        System.out.println("tempertaure after conerting into fahrenheat:"+f);
    }
}
```

```
Run: emp × |

| To:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Educational Edition 2022.2.2\lib\idea_rt.jar=53443:C:\Program Files\JetBrains\IntelliJ IDEA E
```

5.Implement a java program to check whether a number is odd or even.

```
Program:- import java.util.*;
public class odeve
{
    public static void main(String args[])
    {
        Scanner s = new Scanner(System.in);
        int a;
        System.out.println("Enter any Number:");
        a = s.nextInt();
        if (a % 2 == 0)
        {
            System.out.println(a + " is Even");
        } else
        {
            System.out.println(a + " is Odd");
        }
    }
}
```

```
Run: odeve ×

| C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\Intellij IDEA Educational Edition 2022.2.2\lib\idea_rt.jar=53445:C:\|
| T:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\Intellij IDEA Educational Edition 2022.2.2\lib\idea_rt.jar=53445:C:\|
| T:\Program Files\JetBrains\Intellij IDE
```

6.Implement a java program to check leap year or not.

# Program:-

```
import java.util.*;
class leap
{
    public static void main(String args[])
    {
        Scanner s = new Scanner(System.in);
        int y;
        System.out.println("Enter any Year:");
        y = s.nextInt();
        if (y % 4 == 0 && (y % 100 != 0 || y % 400 == 0))
        {
            System.out.println(y + " Is Leap Year");
        } else
        {
            System.out.println(y + " Is not a Leap Year");
        }
    }
}
```

7.Implement a java program to check eligibility of a person to vote.

```
System.out.println("Person is Not elegible to vote");
}
}
```

```
    ↑ "C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Educational Edition 2022.2.2\lib\io
    ↓ Enter Age of a person:
    □ □ Person is Not elegible to vote
    □ □ Process finished with exit code 0
    □ □ Process finished with exit code 0
```

8. Write a java program to check whether the number is positive or negative or zero.

Program:-

```
import java.util.*;
class posneg
{
    public static void main(String args[])
    {
        Scanner s=new Scanner(System .in);
        int y;
        System.out.println("Enter number to check:");
        y=s.nextInt();
        if(y<0)
        {
            System.out.println("niumber is negative");
        }
        else if (y==0)
        {
             System.out.println("number is a zero");
        }
        else
        {
             System.out.println("niumber is positive");
        }
    }
}</pre>
```

9. Write a program to perform sum of a 'n' numbers.

```
import java.util.*;
class SumOfSeries
{
    public static void main(String[] args)
    {
        int n,i,sum=0;
        Scanner s=new Scanner(System.in);
        System.out.println("enter the number to print sum upto:");
        n=s.nextInt();
        for(i=0;i<=n;i++)</pre>
```

```
{
    sum=sum+i;
}
System.out.println("sum upto enterd number is:"+sum);
}
```

10. Write a java program to find factorial of a number.

Program:-

```
import java.util.*;
class fact
{
    public static void main(String[] args)
    {
        int n,i,fact=1;
        Scanner s=new Scanner(System.in);
        System.out.println("enter the number:");
        n=s.nextInt();
        for(i=1;i<=n;i++)
        {
            fact=fact*i;
        }
        System.out.println("fact of number is:"+fact);
    }
}</pre>
```

11. Write a java program to print Fibonacci series.

```
c=a+b;
    System.out.println(c);
    a=b;
    b=c;
}
```

```
Run: posneg × vote × fibonacci ×

"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\I
enter the number

The fibonacci series is:
0

1

2

3

5

8

Process finished with exit code 0
```

12. Write a java program to check whether a number is prime or not.

```
import java.util.*;
class prime
{
    public static void main(String[] args)
    {
        int n,i,count=0;
        Scanner s=new Scanner(System.in);
        System.out.println("enter the numbe:");
        n=s.nextInt();
        if (n == 0 || n == 1)
            count = 1;
        for(i=2;i<n;i++)
        {
            if (n%i==0)
            {
                 count++;
            }
        }
        if (count==0)
        {
                 System.out.println(n+"\t is a prime number");
        }
        else {
                 System.out.println(n+"\t is not a prime number");
        }
    }
}</pre>
```

```
Run: posneg x vote x prime x

"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA enter the numbe:

45

45 is not a prime number

Process finished with exit code 0
```

13. Write a java program to check whether a number is Armstrong or not.

Program:-

```
import java.util.*;
class armstrong
{
    public static void main(String[] args)
    {
        int num,r,sum=0,temp;
        Scanner s=new Scanner(System.in);
        System.out.println("enter the number:");
        num=s.nextInt();
        temp=num;
        while (num>0)
        {
            r=num%10;
            sum=sum+(r*r*r);
            num=num/10;
        }
        if(temp==sum)
        {
            System.out.println(temp+"\t is a armstrong");
        }
        else {
            System.out.println(temp+"\t is not a armstrong");
        }
    }
}
```



14. Write a java program to check whether a input is palindrome or not.

### Program:-

```
import java.util.*;
class palindrome
{
    public static void main(String[] args)
    {
        String original, reverse = "";
        Scanner in=new Scanner(System.in);
        System.out.println("Enter a string/number to check if it is a
palindrome");
        original=in.nextLine();
        int length=original.length();
        for( int i=length-1;i>=0;i--)
            reverse=reverse+original.charAt(i);
        if (original.equals(reverse))
            System.out.println("Entered string/number is a palindrome.");
        else
            System.out.println("Entered string/number isn't a
palindrome.");
    }
}
```

```
Run: posneg × vote × palindrome ×

**C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Educational Edition 2022.2.

**Enter a string/number to check if it is a palindrome

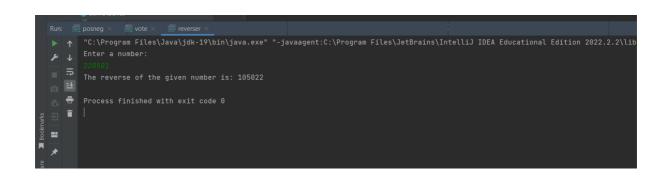
**Accepted**

Entered string/number is a palindrome.

**Process finished with exit code 0
```

15. Write a java program to reverse a number.

```
import java.util.*;
class reverser
{
   public static void main(String[] args)
   {
      int number,reverse = 0;
      Scanner in=new Scanner(System.in);
      System.out.println("Enter a number:");
      number=in.nextInt();
      for( ; number != 0; number=number/10)
      {
        int remainder = number % 10;
           reverse = reverse * 10 + remainder;
      }
      System.out.println("The reverse of the given number is: " + reverse);
   }
}
```



16. Write a program to reverse a word using loop? (Not to use inbuilt functions).

Program:-

```
import java.util.*;
class as1
{
    public static void main(String[] args)
    {
        String str,reversedStr = "";
        Scanner in=new Scanner(System.in);
        System.out.println("Enter a string:");
        str=in.nextLine();
        for(int i = str.length()-1; i >= 0; i--){
            reversedStr = reversedStr + str.charAt(i);
        }
        System.out.println("Original string: " + str);
        System.out.println("Reverse of given string: " + reversedStr);
    }
}
```

```
"C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Educational Edi
Enter a string:
tony stark
Original string: tony stark
Reverse of given string: krats ynot

Process finished with exit code 0
```

17. Write a program to check whether the entered user name is valid or not. Get both the inputs from the user.

```
mport java.util.*;
class as2
{
    public static void main(String[] args)
    {
       String str1,str2;
       Scanner in=new Scanner(System.in);
       System.out.println("Enter user name:");
       str1=in.nextLine();
```

```
System.out.println("renter user name:");
    str2=in.nextLine();
    if (str1.equals(str2))
        System.out.println("user name is valid");
    else
        System.out.println("invalid user name");
}
```





18. Write a program to find whether the person is eligible for vote or not. And if that particular person is not eligible, then print how many years are left to be eligible.

```
import java.util.*;
class as3vot
{
    public static void main(String[] args)
    {
        Scanner s=new Scanner(System.in);
        int ag;
        System.out.println(" enter the age of a person:");
        ag=s.nextInt();
        if(ag<=0)
        {
            System.out.println("invalid input");
        }
        else if(ag<18)
        {
            System.out.println(" person is not eligible to vote");
            System.out.println(" person is eligible to vote after\t" +(18-ag)
+"\t years");
        }
        else</pre>
```

```
{
         System.out.println(" person is eligible to vote");
    }
}
```

```
Run: posneg × vote × as3vot ×

**Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Education enter the age of a person:

**person is not eligible to vote person is eligible to vote after 6 years

**Process finished with exit code 0
```

19.Write a program using the function to calculate the simple interest. Suppose the customer is a senior citizen. He is being offered a 12 percent rate of interest; for all other customers, the ROI is 10 percent.

Sample Input:

Enter the principal amount: 200000

Enter the no of years: 3

Is customer senior citizen (y/n): n

Sample Output:

Interest: 60000

```
Run: posneg × vote × as4 ×

** "C:\Program Files\Java\jdk-19\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Educenter principle amount:

200000
enter duration in years:

is cu stomer senior citizen (enter '0' for 'yes'/ '1' for 'no')

12% of roi for senior citize intrest=72000.0

Process finished with exit code 0
```

20. Write a Java Program to Convert a Given Number of Days in Terms of Years, Weeks, and Days.

```
import java.util.*;
class as5
{
   public static void main(String args[])
   {
      int m, year, week, day;
      Scanner s = new Scanner(System.in);
      System.out.print("Enter the number of days:");
      m = s.nextInt();
      if(m<=0)
      {
            System.out.println("invalid input");
      }
      else
      {
            year = m / 365;
            m = m % 365;
            System.out.println("No. of years:" + year);
            week = m / 7;
            m = m % 7;
            System.out.println("No. of weeks:" + week);
            day = m;
            System.out.println("No. of days:" + day);
      }
   }
}</pre>
```

```
Runc posseg × posseg × vote × posseg × vote × posseg × posseg × vote × posseg × poss
```