

# BASIC JAVA PROGRAMS

## 1. PROGRAM TO PRINT SIMPLE STATEMENTS IN JAVA

```
import java.util.*;
class program1 {
public static void main(String args[])
{
    System.out.println("Welcome to Java");
    System.out.println("Learning Java Now");
    System.out.println("Programming is fun");
}
}
```

### Output:

```
D:\Program Files\CODES>java program1
Welcome to Java
Learning Java Now
Programming is fun
```

## 2. PROGRAM TO SHOW THE CONVERSION : METERS TO FEET

```
import java.util.*;
class program3
{
    public static void main(String args[])
    {
        float m,ft;
        Scanner sc=new Scanner(System.in);
        System.out.print("Enter the number in meters:");
        m=sc.nextFloat(); ft=m*3.28084f;
        System.out.println("Conversion of "+m+" meters into feet is: "+ft);
    }
}
```

### Output:

```
D:\Program Files\CODES>javac program3.java

D:\Program Files\CODES>java program3
Enter the number in meters:56
Conversion of 56.0 meters into feet is: 183.72704
```

### 3. Program to arrange the elements in ascending and descending order

```
import java.util.*;
class program5
{
    public static void main(String args[])
    {
        int a,b,c,temp;
        Scanner sc=new Scanner(System.in);
        System.out.print(" Enter the first integer:");
        a=sc.nextInt();
        System.out.print(" Enter the second integer:");
        b=sc.nextInt();
        System.out.print(" Enter the third integer:");
        c=sc.nextInt();
        if(a<b)
        {
            temp=a;
            a=b;
            b=temp;
        }
        if(a<c)
        {
            temp=a;
            a=c;
            c=temp;
        }
        if(b<c)
        {
            temp=b;
            b=c;
            c=temp;
        }
        System.out.print(" Descending order is as :"+a+">" +b+">" +c+"\n");
        System.out.print(" Ascending order is as :"+c+"<" +b+"<" +a);
        System.out.print("\n");
    }
}
```

### Output:

```
D:\Program Files\CODES>javac program5.java
D:\Program Files\CODES>java program5
Enter the first integer:4
Enter the second integer:6
Enter the third integer:9
Descending order is as :9>6>4
Ascending order is as :4<6<9
```

## 4. Program to find the grades according to the marks entered by the user


```
import java.util.*;
class marks
{
    public static void main(String []args)
    {
        float m1,m2,m3,tot,per;
        Scanner sc= new Scanner(System.in);
        System.out.println("enter the marks for java");
        m1=sc.nextFloat();
        System.out.println("enter the marks for C++");
        m2=sc.nextFloat();
        System.out.println("enter the marks for OS");
        m3=sc.nextFloat();
        tot=m1+m2+m3;
        System.out.println("your total is :"+tot);
        per=tot/3;
        if(per>=90)
        {
            System.out.println(" YOU GOT GRADE A");
        }
        else if(per>=70 )
        {
            System.out.println("YOU GOT GRADE B");
        }
        else if(per>=50 )
        {
```

```

        System.out.println("YOU GOT GRADE C");
    }
    else if(per>=35)
    {
        System.out.println("YOU GOT GRADE D");
    }
    else
    {
        System.out.println("YOU ARE FAIL");
    }
}
}
}

```

### Output:



```

D:\Program Files\CODES>java marks
enter the marks for java
83
enter the marks for C++
97
enter the marks for OS
92
your total is :272.0
YOU GOT GRADE A

```

## 5. Program to plan a workout schedule for a week using switch case

```

import java.util.*;
class workoutschedule
{
    public static void main(String []args)
    {
        int n;
        Scanner sc= new Scanner(System.in);
        System.out.println("let's check your workout schedule for this week");
        System.out.println("1. MONDAY");
        System.out.println("2.TUESDAY");
        System.out.println("3.WEDNESDAY");
        System.out.println("4.THURSDAY");
        System.out.println("5.FRIDAY");
        System.out.println("6.SATURDAY");
    }
}

```

```
System.out.println("7.SUNDAY");
System.out.println("choose the day for which you want to know the
schedule");
n=sc.nextInt();

switch(n)
{
case 1 :
    System.out.println("its day 1 of your 1st workout week and today you need
to work on your LOWER BODY");
    break;
case 2 :
    System.out.println("its day 2 of your 1st workout week and today you need
to work on your ABS AND CORE");
    break;
case 3 :
    System.out.println("its day 3 of your 1st workout week and today you need
to do HIIT CARDIO");
    break;
case 4 :
    System.out.println("REST DAY : Resting is equally important");
    break;
case 5 :
    System.out.println("its day 4 of your 1st workout week and today you need
to work on your UPPER BODY");
    break;
case 6 :
    System.out.println("its day 5 and today you need to do CARDIO ");
    break;
case 7 :
    System.out.println("its day 6 of your first workout week and today you need
to work on your mobility and flexibilty (YOGA)");
    break;
default:
    System.out.println("WRONG CHOICE");
    break;
}
}
}
```

### Output:

```
D:\Program Files\CODES>java workoutschedule
lets check your workout schedule for this week
1. MONDAY
2. TUESDAY
3. WEDNESDAY
4. THURSDAY
5. FRIDAY
6. SATURDAY
7. SUNDAY
choose the day for which you want to know the schedule
3
its day 3 of your 1st workout week and today you need to do HIIT CARDIO
```

## 6. Program to create a Fibonacci series

```
import java.util.*;
class fib
{
    public static void main(String []args)
    {
        int n,f=0,s=1,t,i;
        Scanner sc=new Scanner(System.in);
        System.out.print("enter the value :");
        n=sc.nextInt();
        System.out.println("the fibonacci series is:");
        System.out.print(" "+f+" "+s);
        for(i=2;i<n;i++)
        {
            t=f+s;
            System.out.print(" "+t);
            f=s;
            s=t;}
    }
}
```

### Output:

```
D:\Program Files\CODES>javac fib.java

D:\Program Files\CODES>java fib
enter the value :5
the fibonacci series is:
0 1 1 2 3
```

## 7. Program to find area using function overloading

```
import java.util.*;
class areapol
{
    public static void main(String []args)
    {
        float a,b,c;
        int ch;
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the value of a:");
        a=sc.nextFloat();
        System.out.println("Enter the value of b:");
        b=sc.nextFloat();
        System.out.println("Enter the value of c:");
        c=sc.nextFloat();

        System.out.println("\n 1.Circle \n 2.Rectangle \n 3.Cuboid \n Enter the choice
        :");
        ch =sc.nextInt();

        if (ch==1)
        {
            area(a);
        }
        else if (ch==2)
        {
            area(a,b);
        }
        else if (ch==3)
        {
            area(a,b,c);
        }
    }

    public static void area (float a)
    {
        double ar ;
        ar = 3.14*a*a;
        System.out.println("Area of Circle is: "+ar);
    }
}
```

```
}
```

```
public static void area (float a ,float b)
{
    float ar ;
    ar=a*b;
    System.out.println("Area of Rectangle is: "+ar);
}
```

```
public static void area (float a ,float b ,float c )
{
    double ar ;
    ar=2*(a*b)+2*(a*c)+2*(b*c);
    System.out.println("Area of Cuboid is: "+ar);
}
}
```

### Output :

```
D:\Program Files\CODES>java areapol
Enter the value of a:
5
Enter the value of b:
7
Enter the value of c:
4

1.Circle
2.Rectangle
3.Cuboid
Enter the choice :
3
Area of Cuboid is: 166.0
```