/*1.WJA to accept two no.'s , calculate and display its sum and average value. */

```
import java.util.Scanner;
class SumAverage{
public static void main(String args[]){
Scanner A=new Scanner(System.in);
System.out.print("Enter first No. :");
double num1=A.nextDouble();
System.out.print("Enter second No. :");
double num2=A.nextDouble();
double sum=num1+num2;
double avg=sum/2.0;
System.out.println("Sum of two no.'s="+sum);
System.out.println("Average of two no.'s="+avg);
}//Close of main
}//Close of class
```

/*2.WJA to two no.'s , calculate and display its product and difference value. */

```
import java.util.Scanner;
class ProductDifference{
public static void main(String args[]){
Scanner B=new Scanner(System.in);
System.out.print("Enter first No. :");
double num1=B.nextDouble();
```

```
System.out.print("Enter second No. :");
double num2=B.nextDouble();
double prod=num1*num2;
double sub=num1-num2;
System.out.println("Product of two no.'s="+prod);
System.out.println("Difference of two no.'s="+sub);
}//Close of main
}//Close of class
```

/*3.WJA to accept marks obtained in languages C, C++, Java. Calculate and print the total marks obtained in languages as well as percentage as of each language is of 200 marks.

= = = = = MARKSHEET = = = = =

Marks Obtained in C :.....

Marks Obtained in C++ :.....

Marks Obtained in Java :.....

= = = = = = = = = = = = = = =

Total Marks Obtained :.....

Aggregate :.....% */

```
import java.util.Scanner;
class Marksheet{
public static void main(String args[]){
Scanner C=new Scanner(System.in);
System.out.print("Enter marks of language C :");
```

```
double c=C.nextDouble();
System.out.print("Enter marks of language C++ :");
double cpp=C.nextDouble();
System.out.print("Enter marks of language Java :");
double java=C.nextDouble();
double tot=c+cpp+java;
double percent=tot/600*100;
System.out.println("= = = = = = MARKSHEET = = = = = =");
System.out.println("Marks Obtained in language C :"+c);
System.out.println("Marks Obtained in language C++ :"+cpp);
System.out.println("Marks Obtained in language Java :"+java);
System.out.println("= = = = = = = = = = = = = = = =");
System.out.println("Total Marks Obtained :"+tot);
System.out.println("Aggregate \t\t:"+percent+"%");
```

}//Close of main

}//Close of class

/*4.WJA to accept radius of a cicle. Calculate and print the area of circle using formula [area=pi*r*r]. */

```
import java.util.Scanner;
class CircleArea{
public static void main(String args[]){
Scanner D=new Scanner(System.in);
final double pi=22.0/7.0;
System.out.print("Enter radius of a circle :");
```

```
double rad=D.nextDouble();
double area=pi*rad*rad;
System.out.println("Area of given Circle= "+area);
}//Close of main
}//Close of class
```

/*5.WJA to accept radius of a cicle. Calculate and print the Circumference of circle using formula [Circumference=2*pi*r]. */

```
import java.util.Scanner;
class CircleCircumference{
public static void main(String args[]){
Scanner E=new Scanner(System.in);
final double pi=22.0/7.0;
System.out.print("Enter radius of a circle :");
double rad=E.nextDouble();
double circumference=2*pi*rad;
System.out.println("Circumference of given Circle= "+circumference);
}//Close of main
}//Close of class
```

/*6.WJA to accept temperature in fahrenheit. Convert the given temperature in equivalent Celcius using formula:-

[C=5/9(F-32)] */

```
import java.util.Scanner;
```

```
class FahrenheitToCelcius{
public static void main(String args[]){
Scanner F=new Scanner(System.in);
System.out.print("Enter temperature in Fahrenheit :");
double fah=F.nextDouble();
double cel=5.0/9.0*(fah-32);
System.out.println("Equivalent temperature in Celcius= "+cel);
}//Close of main
}//Close of class
```

/*7.WJA to accept temperature in Celcius. Convert the given temperature in equivalent Fahrenheit using formula:-

[F=9/5C+32] */

```
import java.util.Scanner;
class CelciusToFahrenheit{
public static void main(String args[]){
Scanner G=new Scanner(System.in);
System.out.print("Enter temperature in Celcius :");
double cel=G.nextDouble();
double fah=9.0/5.0*cel+32;
System.out.println("Equivalent temperature in Fahrenheit= "+fah);
}//Close of main
}//Close of class
```

/*8.WJA to accept base and height of a right-angled triangle. Calculate and print the area of given right-angled triangle using formula:-

[area=1/2*base*height]. */

```
import java.util.Scanner;
class RightAngledTriangleArea{
public static void main(String args[]){
Scanner H=new Scanner(System.in);
System.out.print("Enter the base of right-angled triangle :");
double base=H.nextDouble();
System.out.print("Enter the height of right-angled triangle :");
double height=H.nextDouble();
double area=1/2.0*base*height;
System.out.println("Area of  given Right-angled triangle= "+area);
}//Close of main
}//Close of class
```

/*9.WJA to accept Employee Code, Employee Name, Post/Designation and Basic Pay of the Employee. Calculate Dearness Allowance (i.e.DA) @30% of the Basic Pay. Similarly Calculate House Rent Allowance (i.e.HRA) @20% of the Basic Pay. Calculate and print the Employee Salary Details in the given format as Income Tax is to be deductected @12% of the Gross/Total Salary.

```
= = = Employee Salary Details = = = Current Date&Time……
Employee Code                     :…….
Employee Name                     :…….
Post/Designation                  :…….
Basic Pay in Rs.                  :…….
Dearness Allowance in Rs.         :…….
House Rent Allowance in Rs.       :…….
= = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =
Gross/Total Salary in Rs.         :…….
Income Tax Deduction in Rs.       :…….
= = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = = =
Net Salary in Rs.                 :…….              */
import java.util.*;
class EmployeeSalary{
public static void main (String args[]){
Scanner I=new Scanner(System.in);
System.out.print("Enter Employee Code :");
String ecode=I.nextLine();
System.out.print("Enter Employee Name :");
String ename=I.nextLine();
System.out.print("Enter Employee Post/Designation :");
String post=I.nextLine();
System.out.print("Enter Basic Pay of the Employee :");
```

```
double basic=I.nextDouble();
double da=basic*30/100;
double hra=basic*20/100;
double gross=basic+da+hra;
double itax=gross*12/100;
double netsal=gross-itax;
System.out.println("= = = Employee Salary Details = = = Dated :"+new Date());
System.out.println("Employee Code :"+ecode.toUpperCase());
System.out.println("Employee Name :"+ename.toUpperCase());
System.out.println("Post/Designation :"+post.toUpperCase());
System.out.println("Basic Pay in Rs. :"+basic);
System.out.println("Dearness Allowance in Rs. :"+da);
System.out.println("House Rent Allowance in Rs. :"+hra);
System.out.println("= = = = = = = = = = = = = = = = = =");
System.out.println("Gross/Total Salary in Rs. :"+gross);
System.out.println("Income Tax Deduction in Rs. :"+itax);
System.out.println("= = = = = = = = = = = = = = = = = =");
System.out.println("Net Salary in Rs. :"+netsal);
```

}//Close of main

}//Close of class

/*10.WJA to accept Product Code, Product Name, Company Name, Product Type, Product M.R.P. and Quantity taken. Calculate and print the Bill/Invoice on purchase of Products/Goods in the following format as 30% discount

availables on all products. Finally Customer/Consumer has to pay 1% VAT on bill payment:-

= = = Bill/Invoice Details = = = Current Date&Time = = =

Product/Item Code :.......

Product/Item Name :.......

Company Name :.......

Product/Item Type :.......

M.R.P. in Rs. :.......

Quantity taken :.......

= =

Total Bill Amount in Rs. :.......

Discount Amount in Rs. :.......

= =

Payable Amount in Rs. :.......

1% VAT Amount in Rs. :.......

= =

Net Bill/Invoice Amount in Rs. :....... */

```
import java.util.*;
class Invoice{
public static void main (String args[]){
Scanner J=new Scanner(System.in);
System.out.print("Enter Product/Item Code :");
```

```
String pcode=J.nextLine();
System.out.print("Enter Product/Item Name :");
String pname=J.nextLine();
System.out.print("Enter Company Name :");
String cname=J.nextLine();
System.out.print("Enter Product/Item Type :");
String ptype=J.nextLine();
System.out.print("Enter M.R.P. in Rs. :");
double mrp=J.nextDouble();
System.out.print("Enter No. of Quantity taken :");
int quantity=J.nextInt();
double billamt=mrp*quantity;
double discount=billamt*30/100;
double payamt=billamt-discount;
double vat=payamt*1/100;
double netamt=payamt+vat;
System.out.println("= = = Bill/Invoice Details = = = Dated :"+new Date());
System.out.println("Product/Item Code :"+pcode.toUpperCase());
System.out.println("Product/Item Name :"+pname.toUpperCase());
System.out.println("Company Name :"+cname.toUpperCase());
System.out.println("Product/Item Type :"+ptype.toUpperCase());
System.out.println("M.R.P. in Rs. :"+mrp);
System.out.println("No. of Quantity taken :"+quantity);
System.out.println("= = = = = = = = = = = = = = = = = =");
System.out.println("Total Bill Amount in Rs. :"+billamt);
```

```
System.out.println("Discount Amount in Rs. :"+discount);

System.out.println("= = = = = = = = = = = = = = = = = =");

System.out.println("Payable Amount in Rs. :"+payamt);

System.out.println("1% VAT Amount in Rs. :"+vat);

System.out.println("= = = = = = = = = = = = = = = = = =");

System.out.println("Net Bill/Invoice Amount in Rs. :"+netamt);
```

}//Close of main

}//Close of class