1.public class demo

{

public static void main(String[] args)

{

int num=153;

int sum=0;

int temp=num;

while(num>0){

{

int a=num%10;

sum=sum+a\*a\*a;

num=num/10;

}

if(sum==temp)

{

System.out.println("The number is Armstrong");

}

else

{

System.out.println("The number is not a Armstrong");

}

}

output

The number is Armstrong

2.public class demo

{

public static void main(String[] args)

{

int n;

int sum=0;

int temp=n;

for(int n=100;n<=999;n++)

{

while(n>0)

{

int a=n%10;

sum=sum+a\*a\*a;

num=num/10;

}

if(sum==temp)

{

System.out.println("The number is Armstrong");

}

else

{

System.out.println("The number is not a Armstrong");

}

}

}

}

3.import java.util .\*;

public class demo

{

public static void main (String args[ ])

{

double pr, rate, t, sim,com;

Scanner sc=new Scanner (System. in);

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

pr=sc.nextDouble();

System. out. println("Enter the No.of years:");

t=sc.nextDouble();

System. out. println("Enter the Rate of interest");

rate=sc.nextDouble();

sim=(pr \* t \* rate)/100;

com=pr \* Math.pow(1.0+rate/100.0,t) - pr;

System.out.println("Simple Interest="+sim);

System.out. println("Compound Interest="+com);

}

}

4.public class student

{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Enter the marks of three subject");

int sub1=sc.nextInt();

int sub2=sc.nextInt();

int sub3=sc.nextInt();

if(sub1>=60 && sub2>=60 && sub3 >=60)

{

System.out.println("passed");

}

else if(sub1>=60 && sub2>=60 || sub3>=60)

{

System.out.println("promoted");

}

else

{

system.out.println("failed");

}}}

5.import java.util.Scanner;

public class Tax{

public static void main(String[] args)

{

int ctc;

double tax;

Scanner sc=new Scanner(System.in);

System.out.println("Enter the ctc");

ctc=sc.nextInt();

if(ctc<=180000)

{

tax=ctc;

System.out.println("Slab A's" +tax+" is the display Tax amount");

}

else if((ctc>=181001)&&(ctc<=300000))

{

tax=ctc+(ctc\*10/100);

System.out.println("Slab B's "+tax+ "is the display Tax amount");

}

else if((ctc>=300001)&&(ctc<=500000))

{

tax=ctc+(ctc\*20/100);

System.out.println("Slab C's "+tax+" is the display Tax amount");

}

else if((ctc>=500001)&&(ctc<=1000000))

{

tax=ctc+(ctc\*30/100);

System.out.println("Slab D's "+tax+" is the display Tax amount");

}

else

{

System.out.println("wrong Input");

}

}

}

output

Enter the ctc

10000

Slab A's 10000.0 is the display Tax amount

7.public class demo

{

public static void main(string[] args)

{

int num[]={5,12,14,6,78,19,1,23,26,35,37,7,52,86,47}

int toFind=19;

boolean found=false;

for(int n:num)

{

if(n==toFind)

{

found=true;

break;

}

}

if(found)

System.out.println(toFind+"is found");

else

System.out.println(toFound+"is not found");

output

is found

8.public class BubbleSortExample {

static void bubbleSort(int[] arr) {

int n = arr.length;

int temp = 0;

for(int i=0; i < n; i++){

for(int j=1; j < (n-i); j++){

if(arr[j-1] > arr[j]){

temp = arr[j-1];

arr[j-1] = arr[j];

arr[j] = temp;

} }}}

public static void main(String[] args) {

int arr[] ={5,12,14,6,78,19,1,23,26,35,37,7,52,86,47};

System.out.println("Array Before Bubble Sort");

for(int i=0; i < arr.length; i++){

System.out.print(arr[i] + " ");

}

System.out.println();

bubbleSort(arr);

System.out.println("Array After Bubble Sort");

for(int i=0; i < arr.length; i++){

System.out.print(arr[i] + " ");

}}}

9.import java.util.Scanner;

public class student{

public static void main(String[] args)

{

Scanner sc=new Scanner(System.in);

System.out.println("Name:Nam");

System.out.println("subject A:");

double num1=scan.nextDouble();

System.out.println("subject B");

double num2=scan.nextDouble();

System.out.println("subject C");

double num3=scan.nextDouble();

double total=num1+num2+num3;

System.out.println("total"+total);

double avg1=total/3;

System.out.println("average"+avg1);

System.out.println("Name:Var");

System.out.println("subject A:");

double num11=scan.nextDouble();

System.out.println("subject B");

double num22=scan.nextDouble();

System.out.println("subject C");

double num33=scan.nextDouble();

double total=num11+num22+num33;

System.out.println("total"+total);

double avg10=total/3;

System.out.println("average"+avg10);

System.out.println("Name:Yash");

System.out.println("subject A:");

double num21=scan.nextDouble();

System.out.println("subject B");

double num32=scan.nextDouble();

System.out.println("subject C");

double num43=scan.nextDouble();

double total=num21+num32+num43;

System.out.println("total"+total);

double avg11=total/3;

System.out.println("average"+avg11);

}

}