**COP ASSIGNMENT**

# Assignment no 1

**1:write program to test Hello World.**

**public** **class** assignment\_que\_1

{

**public** **static** **void** main(String[] args)

{

System.***out***.println("Hello World");

}

}

**Output:**

Hello World

**2:Write a program to adddition of two numbers also addition of two characters.**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_2

{

**public** **static** **void** main(String[] args)

{

**int** a, b, ans;

String d, e;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter two number");

System.***out***.println("Enter 1st number");

a=sc.nextInt();

System.***out***.println("Enter 2nd number");

b=sc.nextInt();

ans=a+b;

System.***out***.println("The addition is="+ans);

System.***out***.println("Enter 1st character");

d=sc.next();

System.***out***.println("Enter 2nd character");

e=sc.next();

System.***out***.println("Addition of two character is= "+d+e);

}

}

**Output:**

Enter two number

Enter 1st number

10

Enter 2nd number

20

The addition is=30

Enter 1st character

a

Enter 2nd character

s

Addition of two character is= as

**3:Find the compound amount and compound interest on the principal Rs.20,000 borrowed at 6% compounded annually for 3 years.**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_3

{

**public** **static** **void** main(String[] args)

{

**int** p, t;

**double** a, r, ci;

System.***out***.println("Enter the values");

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter The Princiiple amount ");

p=sc.nextInt();

System.***out***.println("Enter the intrest Rate ");

r=sc.nextDouble();

System.***out***.println("Enter the Time in Years ");

t=sc.nextInt();

a=p\*Math.*pow*(1+(r/100),t);

System.***out***.println("Compound amount= "+a);

ci=(p\*Math.*pow*(1+(r/100),t))-p;

System.***out***.println("Compound intrest= "+ci);

}

}

**Output:**

Enter the values

Enter The Princiiple amount

10000

Enter the intrest Rate

6

Enter the Time in Years

3

Compound amount= 11910.16

Compound intrest= 1910.1599999999999

**4:Write a program to calculate power of a number.**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_4

{

**public** **static** **void** main(String[] args)

{

**double** base, e, ans;

System.***out***.println("Enter the values");

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter the base");

base=sc.nextDouble();

System.***out***.println("Enter the exponent");

e=sc.nextDouble();

System.***out***.println("Answer is= "+(Math.*pow*(base,e)));

sc.close();

}

}

**Output:**

Enter the values

Enter the base

10

Enter the exponent

3

Answer is= 1000.0

**5:Write a program to swap two numbers.**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_5

{

**public** **static** **void** main(String[] args)

{

**int** a, b, c;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter 1st Number ");

a=sc.nextInt();

System.***out***.println("Enter 2nd Number ");

b=sc.nextInt();

c=a;

System.***out***.println("C is"+c);

a=b;

System.***out***.println("A is"+a);

b=c;

System.***out***.println("1st Number is= "+a);

System.***out***.println("2nd Number is= "+b);

}

}

**Output:**

Enter 1st Number

10

Enter 2nd Number

20

C is10

A is20

1st Number is= 20

2nd Number is= 10

**6:Write a program to find factorial of a given number.**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_6

{

**public** **static** **void** main(String[] args)

{

**int** a, fact = 1;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter the Number");

a=sc.nextInt();

**for**(**int** i=1;i<=a;i++)

{

fact=fact\*i;

}

System.***out***.println("factorial of given number is= "+fact);

}

}

**Output:**

Enter the Number

3

factorial of given number is= 6

**8:Check if number is a prime number or not.**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_8

{

**public** **static** **void** main(String[] args)

{

**int** a;

Scanner sc= **new** Scanner(System.***in***);

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

a=sc.nextInt();

**int** temp=0;

**for** (**int** b=2; b<a; b++)

{

**if**(a%b==0)

{

temp=temp+1;

}

}

**if**(temp>0)

System.***out***.println("Given number is not prime number");

**else**

System.***out***.println("given number is prime number");

}

}

**Output:**

Enter the number

12

Given number is not prime number

**9:Sum of series :**

**1+2+3+….+n**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_9 {

**public** **static** **void** main(String[] args) {

**int** a, b;

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter the number to addition");

b=sc.nextInt();

**int** res = 0;

**for** (a=1;a<=b;++a)

{

res=res+a;

}

System.***out***.println("Addition is="+res);

}

}

**Output:**

Enter the number to addition

5

Addition is=15

**10:Check whether the number is palindrome or not?**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_10

{

**public** **static** **void** main(String[] args)

{

// **TODO** Auto-generated method stub

**int** a, sum=0, temp;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter number");

a=sc.nextInt();

temp=a;

**while**(a>0)

{

**int** r=a%10;

sum=(sum\*10)+r;

a=a/10;

}

**if**(temp==sum)

System.***out***.println("Number is palindrome number");

**else**

System.***out***.println("Number is not palindrome number");

sc.close();

}

}

**Output:**

Enter number

151

Number is palindrome number

**11:Write a program to find sum of all even and odd numbers between 1 to n.**

**import** java.util.Scanner;

// sum of all odd and even number from 1to n

**public** **class** Assignment\_que\_11

{

**public** **static** **void** main(String[] args)

{

**int** n;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter nth number");

n=sc.nextInt();

**int** even=0;

**int** odd=0;

**for**(**int** i=1;i<=n;i++)

{

**if**(i%2==0)

even=even+i;

**else**

odd=odd+i;

}

System.***out***.println("Addition of 1 to "+n+" even number= "+even);

System.***out***.println("Addition of 1 to "+n+" odd number= "+odd);

sc.close();

}

}

**Output:**

Enter nth number

15

Addition of 1 to 15 even number= 56

Addition of 1 to 15 odd number= 64

**12: Write a program to enter a number and print its reverse.**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_12 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** a, reverse=0;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter number");

a=sc.nextInt();

**while**(a>0)

{

**int** r=a%10;

reverse=(reverse\*10)+r;

a=a/10;

}

System.***out***.println("Reverse number is= "+reverse);

}

}

**Output:**

Enter number

243

Reverse number is= 342

**13:Write a program to print all Prime numbers between 1 to n.**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_13

{

**public** **static** **void** main(String[] args)

{

**int** a;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter the Number");

a=sc.nextInt();

**for** (**int** i=2; i<=a; i++)

{

**if**(a%i==0)

{

System.***out***.println(+i);

}

}

}

}

**Output:**

Enter the Number

15

3

5

15

**14:Write a program to check entered number is Armstrong number or not.**

**import** java.util.Scanner;

// check for amstrong number

**public** **class** Assignment\_que\_14

{

**public** **static** **void** main(String[] args)

{

// **TODO** Auto-generated method stub

**int** numb, n;

**int** amg = 0, b;

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter number");

numb=sc.nextInt();

n=numb;

System.***out***.println("Enter the number of digits");

b=sc.nextInt();

**while**(numb!=0)

{

**double** r=numb%10;

amg=(**int**) (amg+(Math.*pow*(r, b)));

numb=numb/10;

}

**if**(amg==n)

{

System.***out***.println("Number is amstrong number");

}

**else**

System.***out***.println("Number is not amstrong number");

}

}

**Output:**

Enter number

153

Enter the number of digits

3

Number is amstrong number

**15:Write a program to find greatest of three numbers using nested if-else.**

**import** java.util.Scanner;

**public** **class** Assignment\_que\_15

{

**public** **static** **void** main(String[] args)

{

// **TODO** Auto-generated method stub

**int** a, b, c;

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter the value of a");

a=sc.nextInt();

System.***out***.println("Enter the value of b");

b=sc.nextInt();

System.***out***.println("Enter the value of c");

c=sc.nextInt();

**if**(a>b)

{

**if**(a>c)

System.***out***.println("Greatest Number is"+a);

**else**

{

System.***out***.println("Greatest Number is"+c);

}

}

**else** **if**(b>c)

System.***out***.println("Greatest Number is"+b);

**else**

System.***out***.println("Greatest Number is"+c);

sc.close();

}

}

**Output:**

Enter the value of a

12

Enter the value of b

52

Enter the value of c

6

Greatest Number is52

# Assignment no 2

**1. Java program to print the following pattern on the console**

**\***

**\* \***

**\* \* \***

**\* \* \* \***

**\* \* \* \* \***

**import** java.util.Scanner;

**public** **class** AssignmentQue1

{

**public** **static** **void** main(String[] args)

{

//System.out.println("\*");

//System.out.println("\* \*");

//System.out.println("\* \* \*");

//System.out.println("\* \* \* \*");

// System.out.println("\* \* \* \* \*");

**int** a=0;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter number of lines of pattern= ");

a=sc.nextInt();

**for**(**int** i=1;i<=a;i++)

{

**for**(**int** j=1;j<=i;j++)

System.***out***.print("\* ");

System.***out***.println();

}

}

}

**Output:**

Enter number of lines of pattern=

5

\*

\* \*

\* \* \*

\* \* \* \*

\* \* \* \* \*

**2. Write a program which will accept student information like rollno,name,5 subject marks.calculate total and percentage.calculate grade..**

**per >75 grade :A**

**per<74 and >60 :B**

**per<59 :C**

**import** java.util.Scanner;

**public** **class** AssignmentQue2

{

**public** **static** **void** main(String[] args)

{

**int** roll;

String name;

**int** size=5;

**int** sum = 0;

**int** arr[]=**new** **int**[size];

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter the roll number");

roll=sc.nextInt();

System.***out***.println("Enter name of student");

name=sc.next();

System.***out***.println("Marks of subject are");

**for**(**int** i=0;i<size;i++)

{

arr[i]=sc.nextInt();

}

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

**for**(**int** i=0;i<size;i++)

{

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

}

**for**(**int** i=0;i<size;i++)

{

sum+=arr[i];

}

System.***out***.println("Roll number= "+roll);

System.***out***.println("Name= "+name);

**int** per=sum/size;

**if** (per>75)

System.***out***.println("Student "+roll+" got a grade 'A' ");

**else** **if** (per>60 && per<74)

System.***out***.println("Student "+roll+" got a grade 'B' ");

**else** **if**(per<59)

System.***out***.println("\"Student "+roll+" got a grade 'C' ");

}

}

**Output:**

Enter the roll number

1

Enter name of student

jayant

Marks of subject are

88

36

55

90

50

Marks=

88 36 55 90 50Roll number= 1

Name= jayant

Student 1 got a grade 'B'

**3. Write function to swap two numbers.**

// function to swap two numbers

**public** **class** AssignmentQue3

{

**public** **static** **void** swap(**int** a, **int** b)

{

**int** temp=a;

a=b;

b=temp;

System.***out***.println("Number "+a+ " and " +b+" after swapping is "+a+" "+b+"");

}

**public** **static** **void** main(String[] args)

{

**int** a=10, b=20;

*swap*(a, b);

System.***out***.println("Number "+a+ " and " +b+" begore swapping is "+a+" "+b+"");

}

}

**Output:**

Number 20 and 10 after swapping is 20 10

Number 10 and 20 begore swapping is 10 20

**4. Write functions for making addition of diffrent types(use FunctionOverloading).**

**import** java.util.Scanner;

**public** **abstract** **class** AssignmentQue4

{

**public** **static** **void** sum(**int** a, **int** b, **int** c)

{

**int** f=a+b+c;

System.***out***.println("Sum is= "+f);

}

**public** **static** **void** sum(String name, **int** roll)

{

System.***out***.println("Roll numb is "+roll);

System.***out***.println("Name is "+name);

}

**public** **static** **void** main(String[] args)

{

**int** a =10, b =20, c =30, roll=1;

String name;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter name");

name=sc.next();

*sum*(a, b, c);

*sum*(name, roll);

}

}

**Output:**

Enter name

Jayant

Sum is= 60

Roll numb is 1

Name is Jayant

**5. Write a program to accept array of 5 numbers and display it.**

**import** java.util.Scanner;

**public** **class** AssignmentQue5

{

**public** **static** **void** main(String[] args)

{

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter size of array");

**int** size=sc.nextInt();

**int** arr[]=**new** **int**[size];

System.***out***.println("Enter element of array");

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

{

arr[i]=sc.nextInt();

}

System.***out***.println("Elements of Array ");

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

{

System.***out***.println(+arr[i]);

}

}

}

**Output:**

Enter size of array

5

Enter element of array

52

36

2

50

2

Elements of Array

52

36

2

50

2

**6. Write a program which read aaray of 5 elements and print reverse array.**

**import** java.util.Scanner;

**public** **class** AssignmentQue6

{

**public** **static** **void** main(String[] args)

{

**int** size=5;

**int** arr[]=**new** **int**[size];

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter the elements of array");

**for**(**int** i=0; i<size; i++)

{

arr[i]=sc.nextInt();

}

System.***out***.println("--------");

**for**(**int** i=arr.length-1; i>=0; i--)

{

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

}

}

}

**Output:**

Enter the elements of array

15

2

521

2

5

--------

5

2

521

2

15

**7. Write a Java program , accept array ,accept number from user and find the index of number in array if present else show message not exist.**

**import** java.util.Scanner;

**public** **class** AssignmentQue7 {

**public** **static** **void** main(String[] args)

{

// **TODO** Auto-generated method stub

**int** size=0;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter size of Array");

size=sc.nextInt();

**int** arr[]=**new** **int**[size];

System.***out***.println("Enter The Elements of Array");

**for**(**int** i=0; i<size; i++)

{

arr[i]=sc.nextInt();

}

**int** num=0;

System.***out***.println("Enter array element to find");

num=sc.nextInt();

**for**(**int** i=0; i<size; i++)

{

**if**(arr[i]==num)

System.***out***.println("Number Present at index "+i);

}

}

}

**Output:**

Enter size of Array

5

Enter The Elements of Array

665

25

225

2

25

Enter array element to find

2

Number Present at index 3

**8. Write a Java program to find the maximum and minimum value of an array.**

**import** java.util.Scanner;

**public** **class** AssignmentQue8

{

**public** **static** **void** main(String[] args)

{

// **TODO** Auto-generated method stub

**int** size=0;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter size of Array");

size=sc.nextInt();

**int** arr[]=**new** **int**[size];

System.***out***.println("Enter The Elements of Array");

**for**(**int** i=0; i<size; i++)

{

arr[i]=sc.nextInt();

}

**int** max=arr[0];

**for**(**int** i=0; i<size; i++)

{

**if**(arr[i]>max)

max=arr[i];

}

System.***out***.println("Max element is= "+max);

System.***out***.println("---a------");

{

**int** min=arr[0];

**for**(**int** i=0; i<size; i++)

{

**if**(arr[i]<min)

min=arr[i];

}

System.***out***.println("Min element is= "+min);

}

}

}

**Output:**

Enter size of Array

5

Enter The Elements of Array

25

2

221

25

2

Max element is= 221

---a------

Min element is= 2

**9. Write a program to create an array of integers and perform following operations on that array like**

**finding the sum, average, maximum and minimum number in that array. Accept the numbers of the**

**array from user.**

**import** java.util.Scanner;

**public** **class** AssignmentQue9 {

**public** **static** **void** main(String[] args)

{

**int** size=0;

**int** choice;

**boolean** flag=**true**;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter size of Array");

size=sc.nextInt();

**int** arr[]=**new** **int**[size];

System.***out***.println("1. Enter element in array");

System.***out***.println("2. Sum of Array");

System.***out***.println("3. Average of Array");

System.***out***.println("4. Maximum number");

System.***out***.println("5. Minimum number");

System.***out***.println("6. Exit");

**while**(flag!=**false**)

{

**int** sum = 0;

**int** sum1=0;

System.***out***.println("Enter Choice: ");

choice=sc.nextInt();

**switch**(choice)

{

**case** 1:

System.***out***.println("Enter Elements of array");

**for**(**int** i=0; i<size; i++)

{

arr[i]=sc.nextInt();

}

**break**;

**case** 2:

**for**(**int** i:arr)

{

sum=sum+i;

}

System.***out***.println("Sum of Array: "+sum);

**break**;

**case** 3:

**for**(**int** i:arr)

{

sum1=sum1+i;

}

System.***out***.println("Average of Array: "+(sum1/size));

**break**;

**case** 4:

**int** max=arr[0];

**for**(**int** i=0; i<size; i++)

{

**if**(arr[i]>max)

max=arr[i];

}

System.***out***.println("Maximum number= "+max);

**break**;

**case** 5:

**int** min=arr[0];

**for** (**int** i=0; i<size; i++)

{

**if**(arr[i]<min)

min=arr[i];

}

System.***out***.println("Minimum number= "+min);

**break**;

**case** 6:

flag=**false**;

**break**;

**default**:

**break**;

}

}

sc.close();

}

}

**Output:**

Enter size of Array

5

1. Enter element in array

2. Sum of Array

3. Average of Array

4. Maximum number

5. Minimum number

6. Exit

Enter Choice:

1

Enter Elements of array

165

262

235

12

45

Enter Choice:

2

Sum of Array: 719

Enter Choice:

**10. Write a program to input basic salary of an employee and calculate its Gross salary according to**

**following: Basic Salary <= 10000 : HRA = 20%, DA = 80% Basic Salary <= 20000 : HRA = 25%, DA = 90%**

**Basic Salary > 20000 : HRA = 30%, DA = 95%**

**import** java.util.Scanner;

**public** **class** AssignmentQue10

{

**public** **static** **void** main(String[] args)

{

**int** basic, hra = 0, da = 0;

**double** gross;

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter basic salary: ");

basic=sc.nextInt();

**if**(basic<=10000)

System.***out***.println("Gross Salary is="+(basic+(0.2\*basic)+(0.8\*basic)));

**else** **if**(basic>=10001&&basic<=20000)

{

gross=basic+(0.25\*basic)+(0.90\*basic);

System.***out***.println("Gross Salary is="+gross);

}

**else** **if**(basic>20000)

{

gross=basic+(0.30\*basic)+(0.95\*basic);

System.***out***.println("Gross Salary is="+gross);

}

sc.close();

}

}

**Output:**

Enter basic salary:

20000

Gross Salary is=43000.0

**11. Write a menu driven program for stationary shop.Items are 1:Pen 2:Pencil 3:NoteBook 4:Bottle 5:ColorBox.**

**1 pen cost is 10Rs,Pencil is 5 rs.NoteBook is 20 rs Bottle is 30 rs and ColorBox is at 50 Rs.**

**Calculate Total of all purchesed items.**

**import** java.util.Scanner;

/\*Write a menu driven program for stationary shop.Items are 1:Pen 2:Pencil 3:NoteBook 4:Bottle

5:ColorBox. 1 Pen cost is 10Rs,Pencil is 5 rs.NoteBook is 20 rs Bottle is 30 rs and ColorBox is at 50 Rs.

Calculate Total of all purchesed items.\*/

**public** **class** AssignmentQue11

{

**public** **static** **void** main(String[] args)

{

**boolean** flag=**true**;

**int** choice = 0;

**int** total=0, total1=0, num=0;

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Menu");

System.***out***.println("1. Pen if of 10 rs.");

System.***out***.println("2. Pencil is of 5 rs.");

System.***out***.println("3. Notebook is of 20 rs.");

System.***out***.println("4. bottle is of 30 rs.");

System.***out***.println("5. ColorBox is of 50 rs.");

System.***out***.println("6. Thank you");

System.***out***.println("---------Happy Shopping----------");

**while**(flag!=**false**)

{

System.***out***.println("\*Enter choice\*");

System.***out***.println();

choice=sc.nextInt();

**switch**(choice)

{

**case** 1:

System.***out***.println("Enter number of Pen");

num=sc.nextInt();

total1=10\*num;

total+=total1;

System.***out***.println("total amt= "+total1);

**break**;

**case** 2:

System.***out***.println("Enter number of Pensil");

num=sc.nextInt();

total1=5\*num;

total+=total1;

System.***out***.println("total amt= "+total1);

**break**;

**case** 3:

System.***out***.println("Enter number of Notebook");

num=sc.nextInt();

total1=num\*20;

total+=total1;

System.***out***.println("total amt= "+total1);

**break**;

**case** 4:

System.***out***.println("Enter number of Bottle");

num=sc.nextInt();

total1=30\*num;

total+=total1;

System.***out***.println("total amt= "+total1);

**break**;

**case** 5:

System.***out***.println("Enter number of ColorBox");

num=sc.nextInt();

total=50\*num;

total+=total1;

System.***out***.println("total amt= "+total);

**break**;

**case** 6:

flag=**false**;

**break**;

**default**:

**break**;

}

}

System.***out***.println("Total Amount is= "+total);

sc.close();

}

}

**Output:**

Menu

1. Pen **if** of 10 rs.

2. Pencil is of 5 rs.

3. Notebook is of 20 rs.

4. bottle is of 30 rs.

5. ColorBox is of 50 rs.

6. Thank you

---------Happy Shopping----------

\*Enter choice\*

1

Enter number of Pen

10

total amt= 100

\*Enter choice\*

3

Enter number of Notebook

5

total amt= 100

\*Enter choice\*

6

Total Amount is= 200

# Assignment no 3

**1:Write a function to accept array of string.Display all elements in uppercase.**

**import** java.util.Scanner;

// Write a function to accept array of string.Display all elements in uppercase

**public** **class** AssignmentQue1

{

**public** **static** **void** main(String[] args)

{

**try** {

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter number of strings");

**int** size=sc.nextInt();

System.***out***.println("Enter the strings= ");

String[] array=**new** String[size];

**for**( **int** i=0; i<size; i++)

{

array[i]=sc.next();

}

**int** i;

**for**(i=0;i<array.length;i++)

{

array[i]=array[i].toUpperCase();

System.***out***.println(array[i]);

}

}

**catch**(Exception e)

{

System.***out***.println("error is :"+e);

}

}

}

**Output:**

Enter number of strings

5

Enter the strings=

jayant

vijay

BOb

joy

mac

JAYANT

VIJAY

BOB

JOY

MAC

**2:Write a Java program to accept 2D aaray elements.Display all elements.**

**import** java.util.Scanner;

**public** **class** AssignmentQue2 {

**public** **static** **void** main(String[] args)

{

Scanner sc=**new** Scanner(System.***in***);

**int**[][] arr= **new** **int** [3][3];

System.***out***.println("Enter the Elements of Array");

**for**(**int** i=0;i<3;i++)

{

**for**(**int** j=0; j<3; j++)

{

arr[i][j]=sc.nextInt();

}

}

System.***out***.println("--------------------------------");

**for**(**int** i=0; i<3; i++)

{

**for** (**int** j=0; j<3; j++)

{

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

}

System.***out***.println();

}

}

}

**Output:**

Enter the Elements of Array

1

5

6

2

23

2

23

2

2

--------------------------------

1 5 6

2 23 2

23 2 2

**3:Write a java program to make the addition of two 2D array And store result in Third array.**

**import** java.util.Scanner;

**public** **class** AssignmentQue3

{

**public** **static** **void** main(String[] args)

{

Scanner sc=**new** Scanner(System.***in***);

**int**[][] arr2= **new** **int** [3][3];

System.***out***.println("Enter the Elements of Array");

**for**(**int** i=0;i<3;i++)

{

**for**(**int** j=0; j<3; j++)

{

arr2[i][j]=sc.nextInt();

}

}

System.***out***.println("--------------------------------");

**int**[][] arr1= **new** **int** [3][3];

System.***out***.println("Enter the Elements of Array");

**for**(**int** i=0;i<3;i++)

{

**for**(**int** j=0; j<3; j++)

{

arr1[i][j]=sc.nextInt();

}

}

System.***out***.println("--------------------------------");

**int**[][] arr= **new** **int** [3][3];

**for**(**int** i=0; i<3; i++)

{

**for** (**int** j=0; j<3; j++)

{

arr[i][j]=arr1[i][j]+arr2[i][j];

}

}

**for**(**int** i=0; i<3; i++)

{

**for** (**int** j=0; j<3; j++)

{

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

}

System.***out***.println();

}

}

}

**Output:**

Enter the Elements of Array

10

3

5

30

2

5

5

5

4

--------------------------------

Enter the Elements of Array

4

52

2

2

52

52

5

4

4

--------------------------------

14 55 7

32 54 57

10 9 8

**4.Write a function /method which takes variable no of int numbers as an argument and returns the sum of these arguments as an output.**

/\* Write a function /method which takes variable no of integer numbers as an argument and

returns the sum of these arguments as an output.\*/

**public** **class** AssignmentQue4

{

**public** **static** **int** addition(**int**...j)

{

**int** add=0;

**for**(**int** i=0; i<j.length;i++)

{

add+=j[i];

}

System.***out***.println("Addition is= "+add);

**return** add;

}

**public** **static** **void** main(String[] args)

{

**int** a=10;

**int** sum;

sum=*addition*(a,a,a,a,a,a,a);

System.***out***.println("Addition= "+sum);

}

}

**Output:**

Addition is= 70

Addition= 70

**5:Write a program to merge two arrays into a single array.**

**import** java.util.Scanner;

**public** **class** AssignmentQue5 {

**public** **static** **void** main(String[] args)

{

Scanner sc= **new** Scanner(System.***in***);

**int**[] arr1= **new** **int**[3];

**int**[] arr2= **new** **int**[3];

**int**[] arr= **new** **int**[6];

System.***out***.println("Enter element of 1st array:");

**for**(**int** i=0; i<3; i++)

{

arr1[i]=sc.nextInt();

}

System.***out***.println("Enter element of 2nd array:");

**for** (**int** j=0; j<3; j++)

{

arr2[j]=sc.nextInt();

}

**int** pos=0;

**for** (**int** i=0; i<3 ; i++)

{

arr[i]=arr1[i];

}

**int** index=arr1.length;

**for** (**int** i=0; i<3 ; i++)

{

arr[index]=arr2[i];

index=index+1;

}

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

{

System.***out***.println(arr[i]);

}

}

}

**Output:**

Enter element of 1st array:

10

20

36

Enter element of 2nd array:

50

5

2

10

20

36

50

5

2

**6:Write a java program to sort array.**

**import** java.util.Scanner;

**public** **class** AssignmentQue6

{

**public** **static** **void** main(String[] args)

{

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter size of an array:");

**int** size= sc.nextInt();

**int**[] arr=**new** **int**[size];

System.***out***.println("Enter elements of an array");

**for**(**int** i=0; i<size; i++)

{

arr[i]=sc.nextInt();

}

**for**(**int** i=0; i<size; i++)

{

System.***out***.println(arr[i]);

}

**boolean** flag=**true**;

**int** temp=0;

**int**[] arr1= **new** **int**[size];

**for**(**int** i=0; i<size; i++)

{

**for**(**int** j=i+1;j<size;j++)

{

**if**(arr[i]>arr[j])

{

temp=arr[i];

arr[i]=arr[j];

arr[j]=temp;

}

}

}

System.***out***.println("-------------------------");

**for**(**int** i=0; i<size; i++)

{

System.***out***.println(arr[i]);

}

}

}

**Output:**

Enter size of an array:

5

Enter elements of an array

13

20

60

35

20

13

20

60

35

20

-------------------------

13

20

20

35

60

**7:Write a java program to convert char array into String.**

// Write a java program to convert char array into String

**public** **class** AssignmentQue7

{

**public** **static** **void** main(String[] args)

{

**char**[] ch= {'H','A','R','A','S','H'};

String name=String.*copyValueOf*(ch);

System.***out***.println("string is= "+name);

}

}

**Output:**

string is= HARASH

# Assignment no 4

**1:Create Date class with data members day,month,year.**

**Write a method to accept all data members.write display function to display date.**

**import** java.util.Scanner;

**public** **class** Date

{

**private** **int** date;

**private** **int** year;

**private** String month;

**public** **void** acceptDate()

{

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter date= ");

date=sc.nextInt();

System.***out***.println("Enter month= ");

month=sc.next();

System.***out***.println("Enter year= ");

year=sc.nextInt();

}

**public** **void** displayDate()

{

System.***out***.println("Date is "+date+"/"+month+"/"+year+" ");

}

}

**public** **class** TestDate

{

**public** **static** **void** main(String[] args)

{

Date dat=**new** Date();

dat.acceptDate();

dat.displayDate();

}

}

**Output:**

Enter date=

10

Enter month=

12

Enter year=

2020

Date is 10/12/2020

**--------------------------------------------------------------------------------**

**2:>Create a java applicstion for the following.**

**Create a Customer class , with data members (all private : tight encapsulation)**

**name(String),email(String),age(int), creditLimit(double)**

**2.1 Write acceptInfo() method to accept customer details:**

**2.2 Write a method , showDetails to display customer name & credit limit only.**

**Naming convention : public void setCreditLimit(double limit) {...}**

**public double getCreditLimit(){...}**

**2.3 Create a TestCustomer class . Use scanner to accept user i/ps.**

**Create 2 customers object.**

**Display customer details of both customers.**

**Prompt user , for changing creditLimit of the customer2.**

**Display new credit limit on the console.**

**import** java.util.Scanner;

/\* Create a TestCustomer class . Use scanner to accept user i/ps.

Create 2 customers object.

Display customer details of both customers.

Prompt user , for changing creditLimit of the customer2.

Display new credit limit on the console \*/

**public** **class** TestCustomer

{

**private** String name;

**private** String emailId;

**private** **int** age;

**private** **double** creditLimit;

**public** **void** acceptTestCustomer()

{

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter Customer Name= ");

name=sc.nextLine();

System.***out***.println("Enter EmailID= ");

emailId=sc.next();

System.***out***.println("Enter Age= ");

age=sc.nextInt();

System.***out***.println("Enter Credit Limit= ");

creditLimit=sc.nextDouble();

}

**public** **void** displayTestCustomer()

{

System.***out***.println("Name= "+name);

System.***out***.println("EmailID= "+emailId);

System.***out***.println("Age= "+age);

System.***out***.println("Credit Limit= "+creditLimit);

}

}

**public** **class** Test1Customer

{

**public** **static** **void** main(String[] args)

{

TestCustomer cust1=**new** TestCustomer();

cust1.acceptTestCustomer();

cust1.displayTestCustomer();

System.***out***.println("----------------------");

TestCustomer cust2= **new** TestCustomer();

cust2.acceptTestCustomer();

cust2.displayTestCustomer();

}

}

**Output:**

Enter Customer Name=

John

Enter EmailID=

john@gmail.com

Enter Age=

22

Enter Credit Limit=

50000

Name= John

EmailID= john@gmail.com

Age= 22

Credit Limit= 50000.0

----------------------

Enter Customer Name=

Joy

Enter EmailID=

joy@gmail.com

Enter Age=

25

Enter Credit Limit=

39000

Name= Joy

EmailID= joy@gmail.com

Age= 25

Credit Limit= 39000.0

**OR**

**import** java.util.Scanner;

**public** **class** CreditLimit

{

**private** String name;

**private** String emailId;

**private** **double** creditlimit;

**private** **int** age;

**public** **void** acceptCreditLimit()

{

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter Name= ");

name=sc.nextLine();

System.***out***.println("Enter E-MailId= ");

emailId=sc.next();

System.***out***.println("Enter age= ");

age=sc.nextInt();

System.***out***.println("Enter Credit Limit= ");

creditlimit=sc.nextDouble();

}

**public** **void** displyCreditLimit()

{

System.***out***.print("Name: "+name+" Credit Limit: "+creditlimit+" ");

}

}

**public** **class** TestCreditLimit

{

**public** **static** **void** main(String[] args)

{

CreditLimit cred1=**new** CreditLimit();

cred1.acceptCreditLimit();

cred1.displyCreditLimit();

}

}

**Output:**

Enter Name=

Sam

Enter E-MailId=

sam@gamil.com

Enter age=

22

Enter Credit Limit=

50000

Name: Sam Credit Limit: 50000.0

**----------------------------------------------------------------------------------**

**3:Consider that payroll software needs to be developed for computerization of**

**operations of an ABC organization. The organization has employees.**

**3.1. Construct a class Employee with following members using private access**

**specifies:**

**Employee Id integer**

**Employee Name string**

**Basic Salary double**

**HRA double**

**Medical double**

**PF double**

**PT double**

**Net Salary double**

**Gross Salary double**

**Please use following expressions for calculations:**

**\* HRA = 50% of Basic Salary**

**\* PF = 12% of Basic Salary**

**\* PT = Rs. 200**

**3.2. Write methods to display the details of an employee and calculate the gross**

**and net salary.**

**\* Goss Salary = Basic Salary + HRA + Medical**

**\* Net Salary = Gross Salary – (PT + PF)**

**Create a TestEmployee Class.Create Object of employee class and assign values and display Details.**

**import** java.util.Scanner;

**public** **class** Employee

{

**private** **int** empId;

**private** **double** basic;

**private** **double** hra;

**private** **double** medical=1000;

**private** **double** pf;

**private** **double** pt=200;

**private** **double** netsalary;

**private** **double** grosssalary;

**public** **void** accetEmployee()

{

Scanner sc= **new** Scanner(System.***in***);

System.***out***.println("Enter Enployee Id= ");

empId=sc.nextInt();

System.***out***.println("Enter Basic Salary= ");

basic=sc.nextDouble();

}

**private** **void** calculate()

{

grosssalary = basic + (0.5\*basic) + medical;

netsalary = grosssalary - (200-0.12\*basic);

}

**public** **void** dislayEmployee()

{

calculate();

System.***out***.println("Employee Id= "+empId);

System.***out***.println("Gross Salary of Employee= "+grosssalary);

System.***out***.println("Net Salary of Employee= "+netsalary);

}

}

**public** **class** TestEmployee

{

**public** **static** **void** main(String[] args)

{

Employee emp1= **new** Employee();

emp1.accetEmployee();

System.***out***.println();

System.***out***.println("Imformation of Employee is: ");

emp1.dislayEmployee();

}

}

**Output:**

Enter Enployee Id=

101

Enter Basic Salary=

25000

Imformation of Employee is:

Employee Id= 101

Gross Salary of Employee= 38500.0

Net Salary of Employee= 41300.0

# Assignment no 5

**Problem Statement 1**

**1.1:Create 2 classes Student and Batch. Student class is in pack1 and Batch**

**class is in pack2. Write accept() and display() methid in both the class to accept and to display info.**

**Write a Test class to print Student and Batch**

**information.**

**1.2:Use the Student and Batch classes created earlier. It should contain**

**public rollNo,Public Name, private Grade and default totalMarks attributes and using Batch**

**class, check accessibility of there attributes in same package .**

**1.3:**

**Create new package pack2.**

**create class testStudent in pack3;**

**create object of Student class from pack1 and access methods.Try to check accessibility.**

**package** package1;

**import** java.util.Scanner;

//rollNo,Public Name, private Grade and default totalMarks attributes

**public** **class** Student

{

**public** **int** roll;

**public** String name;

**private** String grade;

**double** totalMarks;

**public** Student()

{

roll=10;

totalMarks=500;

}

**public** Student(**int** roll, String name, String grade, **double** totalMarks)

{

**this**.roll=roll;

**this**.name=name;

**this**.grade=grade;

**this**.totalMarks=totalMarks;

}

**public** **void** acceptInfo()

{

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter Roll number, Name, Grade, Total Marks: ");

roll=sc.nextInt();

name=sc.nextLine();

grade=sc.next();

totalMarks=sc.nextDouble();

}

**public** **void** setRoll(**int** roll)

{

**this**.roll=roll;

}

**public** **int** getRoll()

{

**return** roll;

}

**public** **void** setName(String name)

{

**this**.name=name;

}

**public** String getName()

{

**return** name;

}

**public** **void** displayInfo()

{

System.***out***.println(" "+roll+" "+name+" ");

System.***out***.println("Greade:"+grade);

System.***out***.println("Total marks: "+totalMarks);

}

}

**package** package1;

**public** **class** TestStudent

{

**public** **static** **void** main(String[] args)

{

Student stud1 = **new** Student();

stud1.displayInfo();

stud1.setRoll(500);

String name;

stud1.setName("Sagar");

System.out.println("Updated Roll Number is"+stud1.getRoll());

System.out.println("Updated Name is: "+stud1.getName());

Student stud2=**new** Student(10, "Rupesh", "b" ,400);

stud2.displayInfo();

}

}

**Output:**

10 **null**

Greade:**null**

Total marks: 500.0

Updated Roll Number is500

Updated Name is: Sagar

10 Rupesh

Greade:b

Total marks: 400.0

&&&&&&&&&&&&&&&&&&&&&&&

**package** Package2;

**import** java.util.Scanner;

//rollNo,Public Name, private Grade and default totalMarks attributes

**public** **class** Batch

{

**public** **int** batchId;

**public** String nameofBatch;

**private** **int** numberofStudent;

**int** year;

**public** Batch()

{

batchId=10;

nameofBatch="Avengers";

numberofStudent=100;

year=2020;

}

**public** Batch(**int** batchId, String nameofBatch, **int** numberofStudent,**int** year)

{

**this**.batchId=batchId;

**this**.nameofBatch=nameofBatch;

**this**.numberofStudent=numberofStudent;

**this**.year=year;

}

**public** **void** acceptInfo()

{

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter Roll number, Name, Grade, Total Marks: ");

batchId=sc.nextInt();

nameofBatch=sc.nextLine();

numberofStudent=sc.nextInt();

year=sc.nextInt();

}

**public** **void** setBatchId(**int** batchId)

{

**this**.batchId=batchId;

}

**public** **int** getBatchId()

{

**return** batchId;

}

**public** **void** setBatchName(String nameofBatch)

{

**this**.nameofBatch=nameofBatch;

}

**public** String getBatchName()

{

**return** nameofBatch;

}

**public** **void** setYear(**int** year)

{

**this**.year=year;

}

**public** **int** getYear()

{

**return** year;

}

**public** **void** displayInfo()

{

System.***out***.println(" "+batchId+" "+nameofBatch+" ");

System.***out***.println("Number of Student in Batch:"+numberofStudent);

System.***out***.println("Batch Year: "+year);

}

}

**package** Package2;

**public** **class** TestBatch

{

**public** **static** **void** main(String[] args)

{

Batch b1=**new** Batch();

b1.displayInfo();

System.***out***.println("-------------------------------------");

Batch b2=**new** Batch(5, "bhai", 25, 2010);

b2.displayInfo();

System.***out***.println("-------------------------------------");

Batch b3=**new** Batch();

b3.setBatchName("Sargam");

b3.setBatchId(1);

b3.setYear(2013);

System.***out***.println("Roll Number"+b3.getBatchName());

System.***out***.println("Name is "+b3.getBatchId());

System.***out***.println("Batch year "+b3.getYear());

}

}

**Output:**

10 Avengers

Number of Student in Batch:100

Batch Year: 2020

-------------------------------------

5 bhai

Number of Student in Batch:25

Batch Year: 2010

-------------------------------------

Roll NumberSargam

Name is 1

Batch year 2013

&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&&

package package3;

import Package2.Batch;

import package1.Student;

public class TestBatchStudent {

public static void main(String[] args) {

// TODO Auto-generated method stub

Batch b4=new Batch();

b4.displayInfo();

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

Batch b5=new Batch(12, "Star", 200, 2002);

b5.displayInfo();

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

Student stud4= new Student();

stud4.displayInfo();

stud4.acceptInfo();

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

Student stud5=new Student();

stud5.setName("Pradnya");

System.out.println("Name updated "+stud5.getName());

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

}

}

**Output:**

10 Avengers

Number of Student in Batch:100

Batch Year: 2020

------------------------

12 Star

Number of Student in Batch:200

Batch Year: 2002

--------------------------

10 null

Greade:null

Total marks: 500.0

Enter Roll number, Name, Grade, Total Marks:

10

jon

200

-----------------------------

Name updated Pradnya

--------------------------

**Problem Statement 2:**

**2.1: Create Employee class with empid,name,address,salary.Use Getter Setters**

**2.2 :create array of 5 employees...show all employees using for loop as well as for each loop...in same assignment**

**2.3:create array of 5 employees ...show those employee who are getting salary >20000.**

**package** employeesalary;

**import** java.util.Scanner;

**public** **class** Employee

{

**public** **int** empId;

**public** String empName;

**public** String adress;

**public** **double** salary;

Employee()

{

empId=100;

empName="Samrat";

adress="Pune";

salary=10000;

}

**public** Employee(**int** empId, String empName, String adress, **double** salary)

{

**this**.empId=empId;

**this**.empName=empName;

**this**.adress=adress;

**this**.salary=salary;

}

**public** **void** acceptInfo()

{

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter Employee Information: 1.Employee ID 2.Name 3.Adress 4.Salary");

empId=sc.nextInt();

empName=sc.next();

adress=sc.next();

salary=sc.nextDouble();

}

**public** **void** displayInfo()

{

System.***out***.println("Employee Id: "+empId);

System.***out***.println("Name: "+empName);

System.***out***.println("Adress: "+adress);

System.***out***.println("Salary: "+salary);

}

**public** **void** displayInfoSalary()

{

**if**(salary>20000)

{

System.***out***.println("Employee Id: "+empId);

System.***out***.println("Name: "+empName);

System.***out***.println("Adress: "+adress);

System.***out***.println("Salary: "+salary);

}

}

}

**package** employeesalary;

**public** **class** TestEmployee

{

**public** **static** **void** main(String[] args)

{

Employee[] allEmp=**new** Employee[5];

Employee emp1=**new** Employee(101, "Samadhan", "Pune", 25000);

Employee emp2=**new** Employee(102, "Sagar", "Akurdi", 35000);

Employee emp3=**new** Employee(103, "Sai", "Chakan", 2800);

Employee emp4=**new** Employee();

Employee emp5=**new** Employee(105, "Mahesh", "Nagar", 10000);

allEmp[0]=emp1;

allEmp[1]=emp2;

allEmp[2]=emp3;

allEmp[3]=emp4;

allEmp[4]=emp5;

System.***out***.println("--------------------------------------");

**for**(**int** i=0; i<allEmp.length; i++)

{

allEmp[i].displayInfo();

}

System.***out***.println("-------------------------");

**for**(Employee emp:allEmp)

{

emp.displayInfo();

}

System.***out***.println("------------------------------------");

**for**(**int** i=0; i<allEmp.length; i++)

{

allEmp[i].displayInfoSalary();

}

/\* emp1.displayInfo();

emp2.displayInfo();

emp3.displayInfo();

emp4.displayInfo();

emp5.displayInfo();\*/

}

}

**Output:**

--------------------------------------

Employee Id: 101

Name: Samadhan

Adress: Pune

Salary: 25000.0

Employee Id: 102

Name: Sagar

Adress: Akurdi

Salary: 35000.0

Employee Id: 103

Name: Sai

Adress: Chakan

Salary: 2800.0

Employee Id: 100

Name: Samrat

Adress: Pune

Salary: 10000.0

Employee Id: 105

Name: Mahesh

Adress: Nagar

Salary: 10000.0

-------------------------

Employee Id: 101

Name: Samadhan

Adress: Pune

Salary: 25000.0

Employee Id: 102

Name: Sagar

Adress: Akurdi

Salary: 35000.0

Employee Id: 103

Name: Sai

Adress: Chakan

Salary: 2800.0

Employee Id: 100

Name: Samrat

Adress: Pune

Salary: 10000.0

Employee Id: 105

Name: Mahesh

Adress: Nagar

Salary: 10000.0

------------------------------------

Employee Id: 101

Name: Samadhan

Adress: Pune

Salary: 25000.0

Employee Id: 102

Name: Sagar

Adress: Akurdi

Salary: 35000.0

**Problem STatement3**

**3->Create Date Class with Data Members day,month, year**

**3.1:**

**Create an object and initialize it using mutator methods and accesses it using**

**accessor methods. Print the date.**

**3.2**

**Create two objects and initialize them using no-argument and parameterized**

**constructor respectively. Print the date.**

**package** date;

**import** java.util.Scanner;

**public** **class** Date

{

**public** **int** dd;

**public** **int** mm;

**public** **int** yy;

**public** Date()

{

dd=01;

mm=01;

yy=2000;

}

**public** Date(**int** dd, **int** mm, **int** yy)

{

**this**.dd=dd;

**this**.mm=mm;

**this**.yy=yy;

}

**public** **void** acceptInfo()

{

Scanner sc=**new** Scanner(System.***in***);

System.***out***.println("Enter date month year:");

dd=sc.nextInt();

mm=sc.nextInt();

yy=sc.nextInt();

}

**public** **void** setDate(**int** dd)

{

**this**.dd=dd;

}

**public** **void** setMonth(**int** mm)

{

**this**.mm=mm;

}

**public** **void** setYear(**int** yy)

{

**this**.yy=yy;

}

**public** **int** getDate()

{

**return** dd;

}

**public** **int** getMonth()

{

**return** mm;

}

**public** **int** getYear()

{

**return** yy;

}

**public** **void** display()

{

System.***out***.println("Date is: "+dd+"/"+mm+"/"+yy+"");

}

}

**package** date;

**import** java.util.Scanner;

**public** **class** TestDate

{

**public** **static** **void** main(String[] args)

{

Date date1=**new** Date();

date1.display();

date1.acceptInfo();

date1.display();

System.***out***.println("---------------------------");

Date date2= **new** Date(16, 8, 2012);

date2.display();

System.***out***.println("----------------------------");

Scanner sc=**new** Scanner(System.***in***);

Date date3=**new** Date();

System.***out***.println("Enter date month year: ");

**int** dd=sc.nextInt();

**int** mm=sc.nextInt();

**int** yy=sc.nextInt();

date3.setDate(dd);

date3.setMonth(mm);

date3.setYear(yy);

System.***out***.println("Date is: "+date3.getDate()+"/"+date3.getMonth()+"/"+date3.getYear()+" ");

}

}

**Output:**

Date is: 1/1/2000

Enter date month year:

10

2

2012

Date is: 10/2/2012

---------------------------

Date is: 16/8/2012

----------------------------

Enter date month year:

10

3

2012

Date is: 10/3/2012

**Problem Statement 4:**

**->Create a java applicstion for the following.**

**Create a Customer class , with data members (all private : tight encapsulation)**

**name(String),email(String),age(int), creditLimit(double)**

**4.1 Supply a parameterized constructor to accept all details from user**

**4.2 Supply an argument less constructor to init default name to "Riya" , email to "riya@gmail.com",age=25,creditLimit=10000**

**(Must use constructor chaining)**

**4.3 Write a method , getDetails to return String form of customer name & credit limit only.**

**4.4 Supply getter & setter for creditLimit.**

**Naming convention : public void setCreditLimit(double limit) {...}**

**public double getCreditLimit(){...}**

**4.5 Create a TestCustomer class . Use scanner to accept user i/ps.**

**Create 2 customers using 2 different constructors(4.1 : customer1 ,4.2 : customer2)**

**Display customer details of both customers.**

**Prompt user , for changing creditLimit of the customer2.**

**Display new credit limit on the console.**

**package** creditlimit;

**import** java.util.Scanner;

**public** **class** CreditLimit

{

**private** String name;

**private** String emailId;

**private** **int** age;

**private** **double** creditLimit;

CreditLimit()

{

name="riya";

emailId="riya@gmail.com";

age=25;

creditLimit=10000;

}

CreditLimit(String name, String emailId, **int** age, **double** creditLimit)

{

**this**.name=name;

**this**.emailId=emailId;

**this**.age=age;

**this**.creditLimit=creditLimit;

}

**public** **void** setCreditLimit(**double** NewCreditLimt)

{

**this**.creditLimit=NewCreditLimt;

}

**public** **double** getCreditlimit()

{

**return** creditLimit;

}

**public** **void** acceptInfo()

{

Scanner sc= **new** Scanner(System.***in***);

name=sc.next();

emailId=sc.next();

age=sc.nextInt();

creditLimit=sc.nextDouble();

}

**public** **void** displayInfo()

{

System.***out***.println("Name: "+name+" Credit limit "+creditLimit+" ");

}

}

**package** creditlimit;

**import** java.util.Scanner;

**public** **class** TestCreditLimit

{

**public** **static** **void** main(String[] args)

{

CreditLimit customer1;

customer1=**new** CreditLimit("Arun","arun@gmail.com",22,25000);

customer1.displayInfo();

CreditLimit customer2=**new** CreditLimit();

customer2.displayInfo();

System.***out***.println("------Increase your Credit Limit------");

Scanner sc= **new** Scanner(System.***in***);

**double** newCreditLimit;

System.***out***.println("Enter new Credit Limit ");

newCreditLimit=sc.nextDouble();

customer2.setCreditLimit(newCreditLimit);

System.***out***.println("New credit limit: "+customer2.getCreditlimit());

}

}

**Output:**

Name: Arun Credit limit 25000.0

Name: riya Credit limit 10000.0

------Increase your Credit Limit------

Enter **new** Credit Limit

35000

New credit limit: 35000.0