**ASSIGNMENT 1**

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

**PROGRAM:**

**package ass1;**

**publicclass Hello1**

**{**

**publicstaticvoidmain (String [] args)**

**{**

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

**}**

**}**

**OUTPUT: Hello World**

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

**PROGRAM: package** Day1;

**public** **class** Add {

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

**int** a, b, c;

a = 10;

b = 20;

**char** d = 'P';

**char** e = 'N';

c = a + b;

String f = "" + d + e;

;

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

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

}

}

**package** Day1;

**public** **class** Add {

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

**int** a, b, c;

a = 10;

b = 20;

**char** d = 'P';

**char** e = 'N';

c = a + b;

String f = "" + d + e;

;

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

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

}

}

**OUTPUT:**

**Addition of two character is=PN**

**sum is 30**

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

**Program:**

**package ass1;**

**publicclass CdInterest**

**{**

**publicstaticvoid main(String[] args)**

**{**

**doubleamount,year,rate;**

**floatinterest,a;**

**amount=20000;**

**year=3;**

**rate=6;**

**a=(float) ((1+rate/100)\*(1+rate/100)\*(1+rate/100));**

**interest= (float) (amount\*a-amount);**

**System.*out*.println("The compound interest is="+interest);**

**}**

**}**

**Output: The compound interest is=3820.319**

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

**PROGRAM: package ass1;**

**publicclass Power**

**{**

**publicstaticvoid main(String[] args)**

**{**

**intn = 5, p = 2;**

**longr = 1;**

**inti=p;**

**while (i != 0)**

**{**

**r \*= n;**

**--i;**

**}**

**System.*out*.println(n+"^"+p+" = "+r);**

**}**

**}**

**OUTPUT: 5^2 = 25**

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

**PROGRAM: package Javaprogam;**

**import java.util.Scanner;**

**publicclass SwapProgram**

**{**

**publicstaticvoidmain (String[] args)**

**{**

**inti,j,temp=0;**

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

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

**i=sc.nextInt();**

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

**j=sc.nextInt();**

**System.*out*.println("Swapped Numbers are");**

**temp=i;**

**i=j;**

**j=temp;**

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

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

**}**

**}**

**OUTPUT:**

**Enter First Number**

**8**

**Enter Second Number**

**9**

**Swapped Numbers are**

**9**

**8**

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

**PROGRAM:**

**package ass1;**

**publicclass Factorial**

**{**

**publicstaticvoid main(String[] args)**

**{**

**inti,fact=1;**

**intn=5;**

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

**{**

**fact=fact\*i;**

**}**

**System.*out*.println("Factrial of "+n+" is : "+fact);**

**}**

**}**

**OUTPUT: Factrial of 5 is : 24**

**7:Write a program to find m to the power n**

**PROGRAM: package ass1;**

**import java.util.Scanner;**

**publicclass MtoN**

**{**

**publicstaticvoidmain (String[] args)**

**{**

**intno,e,pow=1,temp;**

**System.*out*.println("Enter base and exponent:");**

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

**no=sc.nextInt();**

**e=sc.nextInt();**

**System.*out*.println("Power is:"+Math.*pow*(no, e));**

**sc.close();**

**}**

**}**

**OUTPUT:**

**Enter base and exponent :**

**9**

**3**

**Power is:729.0**

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

**PROGRAM:**

**package ass1;**

**publicclass Prime**

**{**

**publicstaticvoid main(String[] args)**

**{**

**intnum = 29;**

**booleanflag = false;**

**for (inti = 2; i<= num / 2; i++)**

**{**

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

**{**

**flag = true;**

**break;**

**}**

**}**

**if (!flag)**

**System.*out*.println(num + " is a prime number");**

**else**

**System.*out*.println(num + " is not a prime number");**

**}**

**}**

**OUTPUT: 29 is a prime number**

**9:Sum of series:1+2+3+….+n**

**PROGRAM:**

**import java.util.Scanner;**

**publicclass ass2 {**

**publicstaticvoid main(String[] args)**

**{**

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

**System.*out*.println("enter nth number : ");**

**intn, i, sum = 0;**

**n = sc.nextInt();**

**System.*out*.println("nth term = " + n);**

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

**{**

**sum = sum + i;**

**}**

**System.*out*.println("sum of first n numbers = " + sum);**

**}**

**}**

**OUTPUT:**

**enter nth number :**

**20**

**nth term = 20**

**sum of first n numbers = 210**

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

**PROGRAM:**

**package ass1;**

**class Palindrome**

**{**

**publicstaticvoid main(String args[])**

**{**

**intr,sum=0,temp;**

**intn=454;**

**temp=n;**

**while(n>0)**

**{**

**r=n%10;**

**sum=(sum\*10)+r;**

**n=n/10;**

**}**

**if(temp==sum)**

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

**else**

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

**}**

**}**

**OUTPUT: Number is a palindrome**

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

**PROGRAM:**

**package ass1;**

**importjava.io.\*;**

**publicclass SumOfEven**

**{**

**publicstaticvoid main(String[] args)**

**{**

**intn = 5;**

**intevenSum = 0;**

**intoddSum = 0;**

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

**{**

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

**evenSum += i;**

**else**

**oddSum += i;**

**}**

**System.*out*.println("Sum of First " + n + " Even numbers = " + evenSum);**

**System.*out*.println("Sum of First " + n + " Odd numbers = " + oddSum);**

**}**

**}**

**OUTPUT:**

**Sum of First 5 Even numbers = 6**

**Sum of First 5 Odd numbers = 9**

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

**PROGRAM: package ass1;**

**import java.util.Scanner;**

**publicclass Reverse**

**{**

**publicstaticvoid main(String[] args)**

**{**

**intn, r = 0;**

**System.*out*.println("Enter the integer to reverse");**

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

**n = in.nextInt();**

**while (n != 0)**

**{**

**r = r \* 10;**

**r = r + n % 10;**

**n = n / 10;**

**}**

**System.*out*.println("Reverse of the number= " + r);**

**}**

**}**

**OUTPUT:**

**Sum of First 5 Even numbers = 6**

**Sum of First 5 Odd numbers = 9**

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

**PROGRAM: package ass1;**

**publicclass PrintPrime**

**{**

**publicstaticvoid main(String[] args)**

**{**

**inti, j, p, n;**

**System.*out*.println("All Prime Numbers Between 1 to 100");**

**for (i = 2; i<= 100; i++)**

**{**

**p = 0;**

**for (j = 2; j<= i / 2; j++)**

**{**

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

**{**

**p = 1;**

**break;**

**}**

**}**

**if (p == 0)**

**System.*out*.print(i + " ");**

**}**

**}**

**}**

**OUTPUT: All Prime Numbers Between 1 to 100**

**2 3 5 7 11 13 17 19 23 29 31 37 41 43 47 53 59 61 67 71 73 79 83 89 97**

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

**PROGRAM:**

**package** Day1;

**public** **class** Amstrong {

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

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

**int** n=153;

temp=n;

**while**(n>0)

{

a=n%10;

n=n/10;

c=c+(a\*a\*a);

}

**if**(temp==c)

System.***out***.println("Armstrong Number");

**else**

System.***out***.println("Not an Armstrong number");

}

}

**OUTPUT:**

**After Swapping 85**

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

**PROGRAM: package ass1;**

**import java.util.Scanner;**

**publicclass GreatestNested {**

**publicstaticvoid main(String[] args) {**

**intnum1, num2, num3;**

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

**System.*out*.println("enter the first number");**

**num1 = sc.nextInt();**

**System.*out*.println("enter the second number");**

**num2 = sc.nextInt();**

**System.*out*.println("enter the third number");**

**num3 = sc.nextInt();**

**if (num1>= num2&&num1>= num3)**

**System.*out*.println("the greatest number is " + num1);**

**elseif (num2>= num1&&num2>= num3)**

**System.*out*.println("the greatest number is " + num2);**

**else**

**System.*out*.println("the gratest number is " + num3);**

**sc.close();**

**}**

**}**

**OUTPUT: enter the first number**

**78**

**enter the second number**

**65**

**enter the third number**

**91**

**the gratest number is 91**

**ASSIGNMENT 2**

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

**\***

**\* \***

**\* \* \***

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

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

**PROGRAM:**

**publicclass Starpattern1**

**{**

**publicstaticvoid main(String[] args)**

**{**

**inti,j,n=7;**

**System.*out*.println("right angle triangle pattern of star is");**

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

**{**

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

**{**

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

**}**

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

**}**

**}**

**}**

**OUTPUT:**

**\***

**\* \***

**\* \* \***

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

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

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

**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**

**PROGRAM:**

**package ass2;**

**import java.util.Scanner;**

**publicclass Grade {**

**publicstaticvoid main(String[] args)**

**{**

**finalintTOTAL\_STUDENTS = 1;**

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

**introllNo[] = newint[TOTAL\_STUDENTS];**

**String name[] = new String[TOTAL\_STUDENTS];**

**ints1[] = newint[TOTAL\_STUDENTS];**

**ints2[] = newint[TOTAL\_STUDENTS];**

**ints3[] = newint[TOTAL\_STUDENTS];**

**ints4[] = newint[TOTAL\_STUDENTS];**

**ints5[] = newint[TOTAL\_STUDENTS];**

**ints6[] = newint[TOTAL\_STUDENTS];**

**doublep[] = newdouble[TOTAL\_STUDENTS];**

**charg[] = newchar[TOTAL\_STUDENTS];**

**for (inti = 0; i<TOTAL\_STUDENTS; i++) {**

**System.*out*.println("Enter student " + (i+1) + " details:");**

**System.*out*.print("Roll No: ");**

**rollNo[i] = in.nextInt();**

**in.nextLine();**

**System.*out*.print("Name: ");**

**name[i] = in.nextLine();**

**System.*out*.print("Subject 1 Marks: ");**

**s1[i] = in.nextInt();**

**System.*out*.print("Subject 2 Marks: ");**

**s2[i] = in.nextInt();**

**System.*out*.print("Subject 3 Marks: ");**

**s3[i] = in.nextInt();**

**System.*out*.print("Subject 4 Marks: ");**

**s4[i] = in.nextInt();**

**System.*out*.print("Subject 5 Marks: ");**

**s5[i] = in.nextInt();**

**System.*out*.print("Subject 6 Marks: ");**

**s6[i] = in.nextInt();**

**p[i] = (((s1[i] + s2[i] + s3[i] + s4[i]**

**+ s5[i] + s6[i]) / 600.0) \* 100);**

**if (p[i] < 40)**

**g[i] = 'D';**

**elseif (p[i] < 60)**

**g[i] = 'C';**

**elseif (p[i] < 80)**

**g[i] = 'B';**

**else**

**g[i] = 'A';**

**}**

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

**for (inti = 0; i<TOTAL\_STUDENTS; i++) {**

**System.*out*.println(rollNo[i] + "\t"**

**+ name[i] + "\t"**

**+ p[i] + "\t"**

**+ g[i]);**

**}**

**}**

**}**

**OUTPUT:**

**Enter student 1 details:**

**Roll No: 1**

**Name: pranjali**

**Subject 1 Marks: 50**

**Subject 2 Marks: 60**

**Subject 3 Marks: 72**

**Subject 4 Marks: 54**

**Subject 5 Marks: 91**

**Subject 6 Marks: 52**

**1 pranjali 63.16666666666667 B**

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

**PROGRAM:**

**package Javaprogam;**

**import java.util.Scanner;**

**publicclass Swap {**

**staticvoid swap(intm, intn) {**

**inttemp = m;**

**m = n;**

**n = temp;**

**System.*out*.println(" after swap value is m=" + m + " And value is n=" + n);**

**}**

**publicstaticvoid main(String[] args) {**

**intm = 0, n = 0;**

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

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

**m = pj.nextInt();**

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

**n = pj.nextInt();**

**System.*out*.println("M is " + m);**

**System.*out*.println("N is " + n);**

***swap*(m, n);**

**}**

**}**

**OUTPUT: Enter the M number:**

**52**

**Enter the N number:**

**75**

**M is 52**

**N is 75**

**after swap value is m=75 And value is n=52**

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

**PROGRAM:**

**package ass2;**

**publicclass Sum {**

**publicint sum(intp, intq)**

**{**

**return (p + q);**

**}**

**publicdouble sum(doublep, doubleq, doublet)**

**{**

**return (p + q + t);**

**}**

**publicint sum1(intp, intq)**

**{**

**return (p - q);**

**}**

**publicstaticvoid main(String[] args)**

**{**

**Sum t = new Sum();**

**System.*out*.println(t.sum(10, 30));**

**System.*out*.println(t.sum(10, 20, 30));**

**System.*err*.println(t.sum(30, 10));**

**}**

**}**

**OUTPUT:**

**40**

**60.0**

**40**

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

**PROGRAM:**

**package ass2;**

**import java.util.Scanner;**

**publicclass ArrayDisplay**

**{**

**publicstaticvoid main(String[] args)**

**{**

**intn;**

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

**System.*out*.print("Enter no. of elements you want in array:");**

**n = s.nextInt();**

**inta[] = newint[n];**

**System.*out*.println("Enter all the elements:");**

**for(inti = 0; i<n; i++)**

**{**

**a[i] = s.nextInt();**

**}**

**}**

**}**

**OUTPUT:**

**Enter no. of elements you want in array:5**

**Enter all the elements:**

**6**

**8**

**5**

**2**

**7**

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

**PROGRAM:**

**package ass2;**

**import java.util.Scanner;**

**publicclass ReverseArray**

**{**

**publicstaticvoid main(String[] args)**

**{**

**intn;**

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

**System.*out*.print("Enter no. of elements you want in array:");**

**n = s.nextInt();**

**inta1[] = newint[n];**

**System.*out*.println("Enter all the elements:");**

**for (inti = 0; i<a1.length; i++)**

**{**

**a1[i] = s.nextInt();**

**}**

**System.*out*.println("reverse of array is:");**

**for (inti = a1.length - 1; i>= 0; i--)**

**{**

**System.*out*.println(a1[i]);**

**}**

**}**

**}**

**OUTPUT:**

**Enter no. of elements you want in array:3**

**Enter all the elements:**

**1**

**2**

**3**

**reverse of array is:**

**3**

**2**

**1**

**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.**

**PROGRAM:**

**import java.util.Arrays;**

**publicclass index**

**{**

**publicstaticint findIndex(intarr[], intt)**

**{**

**inti = Arrays.*binarySearch*(arr, t);**

**return (i< 0) ? -1 : i;**

**}**

**publicstaticvoid main(String[] args) {**

**int[] r = { 1, 2, 3, 4, 5, 6, 7 };**

**System.*out*.println("Index position of 5 is: " + *findIndex*(r, 5));**

**System.*out*.println("Index position of 7 is: " + *findIndex*(r, 7));**

**}**

**}**

**OUTPUT:**

**Index position of 5 is: 4**

**Index position of 7 is: 6**

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

**PROGRAM: package ass2;**

**publicclass MaxMinArray {**

**publicint max(int[] array)**

**{**

**intmax = 0;**

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

**{**

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

**{**

**max = array[i];**

**}**

**}**

**returnmax;**

**}**

**publicint min(int[] array)**

**{**

**intmin = array[0];**

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

**{**

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

**{**

**min = array[i];**

**}**

**}**

**returnmin;**

**}**

**publicstaticvoid main(String args[])**

**{**

**int[] myArray = { 10, 80, 110, 54, 11 };**

**MaxMinArray m = new MaxMinArray();**

**System.*out*.println("Maximum value in the array is::" + m.max(myArray));**

**System.*out*.println("Minimum value in the array is::" + m.min(myArray));**

**}**

**}**

**OUTPUT:**

**Maximum value in the array is::110**

**Minimum value in the array is::10**

**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.**

**PROGRAM:**

**import java.util.Scanner;**

**publicclass Arrsumavgmaxmin9**

**{**

**publicstaticvoid main(String[] args)**

**{**

**intn,sum=0,max=0;**

**doubleavg=0;**

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

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

**n=sc.nextInt();**

**intarr[]=newint[n];**

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

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

**{**

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

**}**

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

**{**

**sum=sum+arr[i];**

**}**

**System.*out*.println("sum of array elements is:"+sum);**

**avg=sum/n;**

**System.*out*.println("Average of an array elements is:"+avg);**

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

**{**

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

**max=arr[i];**

**}**

**System.*out*.println("Maximum no in array element is="+max);**

**intmin=arr[0];**

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

**{**

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

**min=arr[i];**

**}**

**System.*out*.println("Minimum no in the array is:"+min);**

**}**

**}**

**OUTPUT:**

**Enter the size of an array:**

**5**

**Enter the elements of an array:**

**5**

**8**

**7**

**6**

**1**

**sum of array elements is:27**

**Average of an array elements is:5.0**

**Maximum no in array element is=8**

**Minimum no in the array is:1**

**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%**

**PROGRAM:**

**package ass2;**

**import java.util.Scanner;**

**publicclass GrossSalary**

**{**

**publicstaticvoid main(String[] args)**

**{**

**intHRA,DA;**

**floatda,hra;**

**floatBasicSalary;**

**floatGrossSalary;**

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

**System.*out*.println("enter the basic salary of employee");**

**BasicSalary= sc.nextFloat();**

**if(BasicSalary<=10000)**

**{**

**HRA=20;**

**DA=80;**

**}**

**elseif (BasicSalary<=20000)**

**{**

**HRA=25;**

**DA=90;**

**}**

**else**

**{**

**HRA=30;**

**DA=95;**

**}**

**da=BasicSalary\*DA/100;**

**hra=BasicSalary\*HRA/100;**

**GrossSalary=BasicSalary+hra+da;**

**System.*out*.println("the gross salary of an employee is "+GrossSalary);**

**sc.close();**

**}**

**}**

**OUTPUT:**

**enter the basic salary of employee**

**50000**

**the gross salary of an employee is 112500.0**

**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 purchased items.**

**PROGRAM:**

**package ass2;**

**import java.util.Scanner;**

**publicclass MenuDriven**

**{**

**publicstaticvoid main(String[] args)**

**{**

**intchoice, Total;**

**booleanflag=true;**

**intPenPrice=10,PencilPrice=5,NotebookPrice=20,BottlePrice=30,ColorboxPrice=50;**

**Total=0;**

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

**System.*out*.println("Items available in the shops are");**

**System.*out*.println("1:Pen 2:Pencil 3:Notebook 4:Bottle 5:Colorbox");**

**while (flag) {**

**System.*out*.print("Enter your Choice: ");**

**choice=sc.nextInt();**

**switch(choice)**

**{**

**case 1: System.*out*.print("Enter the quantity of the pen you want ");**

**intQuantPen=sc.nextInt();**

**Total+=QuantPen\*PenPrice;**

**break;**

**case 2: System.*out*.print("Enter the quantity of the pencil you want ");**

**intQuantPencil=sc.nextInt();**

**Total+=QuantPencil\*PencilPrice;**

**break;**

**case 3: System.*out*.print("Enter the quantity of the notebook you want ");**

**intQuantNotebook=sc.nextInt();**

**Total+=QuantNotebook\*NotebookPrice;**

**break;**

**case 4: System.*out*.print("Enter the quantity of the bootle you want ");**

**intQuantBottle=sc.nextInt();**

**Total+=QuantBottle\*BottlePrice;**

**break;**

**case 5: System.*out*.print("Enter the quantity of the colorbox you want ");**

**intQuantColorbox=sc.nextInt();**

**Total+=QuantColorbox\*ColorboxPrice;**

**break;**

**default : flag=false;**

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

**}**

**}**

**}**

**}**

**OUTPUT:**

**Items available in the shops are**

**1:Pen 2:Pencil 3:Notebook 4:Bottle 5:Colorbox**

**Enter your Choice: 1**

**Enter the quantity of the pen you want 2**

**Enter your Choice: 2**

**Enter the quantity of the pencil you want 2**

**Enter your Choice:**

**3**

**Enter the quantity of the notebook you want 2**

**Enter your Choice: 4**

**Enter the quantity of the bootle you want 2**

**Enter your Choice: 5**

**Enter the quantity of the colorbox you want 2**

**Enter your Choice: 6**

**Total total bill is230**

**ASSIGNMENT 3**

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

**PROGRAM:**

**package Assig3;**

**import java.util.Arrays;**

**import java.util.Scanner;**

**public class StrUpr**

**{**

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

**{**

**String[] name=new String[5];**

**int i;**

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

**for(i=0;i<5;i++)**

**{**

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

**name[i]=sc.next();**

**}**

**System.out.println("NAMES are ...");**

**for(i=0;i<5;i++)**

**{**

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

**}**

**System.out.println("NAMES are ...Uppercase");**

**for(i=0;i<5;i++)**

**{**

**System.out.println(name[i].toUpperCase());**

**}**

**}**

**}**

**OUTPUT:**

**Enter name :**

**pranjali**

**Enter name :**

**jiva**

**Enter name :**

**riya**

**Enter name :**

**pratik**

**Enter name :**

**anushka**

**NAMES are ...**

**pranjali**

**jiva**

**riya**

**pratik**

**anushka**

**NAMES are ...Uppercase**

**PRANJALI**

**JIVA**

**RIYA**

**PRATIK**

**ANUSHKA**

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

**PROGRAM:**

**package ass3;**

**import java.util.Scanner;**

**publicclass TwoDarrDisplay**

**{**

**publicstaticvoid main(String[] args)**

**{**

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

**inti, j;**

**int[][] arr = newint[2][3];**

**System.*out*.println("Enter elements of 2d array");**

**for (i = 0; i< 2; i++) {**

**for (j = 0; j< 2; j++) {**

**arr[i][j] = pj.nextInt();**

**}**

**}**

**System.*out*.println("2D array is:");**

**for (i = 0; i< 2; i++) {**

**for (j = 0; j< 2; j++) {**

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

**}**

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

**}**

**}**

**}**

**OUTPUT:**

**Enter elements of 2d array**

**5**

**2**

**6**

**2**

**2D array is:**

**5**

**2**

**6**

**2**

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

**PROGRAM:**

**publicclass pro3**

**{**

**publicstaticvoid main(String[] args)**

**{**

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

**int[][]arr;**

**System.*out*.println("enter size for row");**

**intsizer=sc.nextInt();**

**System.*out*.println("enter size for col");**

**intsizec=sc.nextInt();//size**

**arr=newint[sizer][sizec];//instance**

**System.*out*.println("enter array elements");**

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

**{**

**for(intj=0;j<arr.length;j++)**

**{**

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

**}**

**}**

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

**{**

**for(intj=0;j<arr.length;j++)**

**{**

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

**}**

**System.*out*.println();//going to next line**

**}**

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

**int[][]arrs;//declare**

**System.*out*.println("enter size for row");**

**intsizer1=sc.nextInt();**

**System.*out*.println("enter size for col");**

**intsizec1=sc.nextInt();//size**

**arrs=newint[sizer1][sizec1];//instance**

**System.*out*.println("enter array elements");**

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

**{**

**for(intj=0;j<arrs.length;j++)**

**{**

**arrs[i][j]=sc.nextInt();**

**}**

**}**

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

**{**

**for(intj=0;j<arrs.length;j++)**

**{**

**System.*out*.print(arrs[i][j]+" ");//" " for space**

**}**

**System.*out*.println();//going to next line**

**}**

**}**

**}**

**OUTPUT:**

**enter size for row**

**3**

**enter size for col**

**3**

**enter array elements**

**1**

**2**

**3**

**1**

**2**

**3**

**1**

**2**

**3**

**1 2 3**

**1 2 3**

**1 2 3**

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

**enter size for row**

**4**

**enter size for col**

**4**

**enter array elements**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1**

**1 1 1 1**

**1 1 1 1**

**1 1 1 1**

**1 1 1 1**

**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.**

**PROGRAM:**

**package ass3;**

**publicclass VarArgList**

**{**

**publicstaticvoid sum(int... a)**

**{**

**System.*out*.println("Size="+a.length);**

**intsum=0;**

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

**{**

**sum=sum+a[i];**

**}**

**System.*out*.println("Sum of "+a.length + " Elements :"+sum);**

**}**

**publicstaticvoid main(String[] args)**

**{**

**inta=10;**

***sum*();**

***sum*(a);**

***sum*(a,a,a,a,a,a,a,a);**

***sum*(a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a,a);**

**}**

**}**

**OUTPUT:**

**Size=0**

**Sum of 0 Elements :0**

**Size=1**

**Sum of 1 Elements :10**

**Size=8**

**Sum of 8 Elements :80**

**Size=24**

**Sum of 24 Elements :240**

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

**PROGRAM:**

**package ass3;**

**import java.util.Arrays;**

**importjava.util.Scanner;**

**publicclass MergeArr**

**{**

**publicstaticvoid main(String[] args)**

**{**

**{**

**int[] a = { 10, 20, 30, 40 };**

**int[] b = { 50, 60, 70, 80 };**

**inta1 = a.length;**

**intb1 = b.length;**

**intc1 = a1 + b1;**

**int[] c = newint[c1];**

**System.*arraycopy*(a, 0, c, 0, a1);**

**System.*arraycopy*(b, 0, c, a1, b1);**

**System.*out*.println(Arrays.*toString*(c));**

**}**

**}**

**}**

**OUTPUT: [10, 20, 30, 40, 50, 60, 70, 80]**

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

**PROGRAM:**

**package ass3;**

**import java.util.Scanner;**

**publicclass Sort**

**{**

**publicstaticvoid main(String[] args)**

**{**

**inta[], n, i, j;**

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

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

**n = sc.nextInt();**

**a = newint[n];**

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

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

**a[i] = sc.nextInt();**

**}**

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

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

**{**

**if (a[i] >a[j]) {**

**inttemp;**

**temp = a[i];**

**a[i] = a[j];**

**a[j] = temp;**

**}**

**}**

**}**

**for (i = 0; i<n; i++)**

**{**

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

**}**

**}**

**}**

**OUTPUT:**

**Enter the size of array**

**3**

**Enter the array elements**

**5**

**6**

**1**

**1**

**5**

**6**

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

**PROGRAM:**

**package ass3;**

**publicclass CharToString**

**{**

**publicstaticvoid main(String[] args)**

**{**

**char[] charArray = { 'J’,’I’,’V’,’A’ };**

**String str = String.*valueOf*(charArray);**

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

**}**

**}**

**OUTPUT:JIVA**

**8: Create a java application for the following.**

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

**name(String),email(String),age(int).Supply a parameterized constructor to accept all details from user.Supply an argument less constructor to init default name to "Riya" , email to "riya@gmail.com",age=25.Write a method displayCustomer to display customer details.**

**PROGRAM1:**

**/\*8: Create a java application for the following.**

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

**name(String),email(String),age(int).Supply a parameterized constructor to accept all**

**details from user.Supply an argument less constructor to init default name to "Riya" ,**

**email to "riya@gmail.com",age=25.Write a method displayCustomer to display customer details.\*/**

**public class Customer {**

**private**

**String name;**

**String email;**

**int age;**

**public**

**Customer()**

**{**

**this.name="jiva";**

**this.email="jiva@gmail.com";**

**this.age=23;**

**}**

**Customer(String name, String email, int age)**

**{**

**this.name=name;**

**this.email=email;**

**this.age=age;**

**}**

**public void displayCustomer()**

**{**

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

**System.out.println("Email : "+email);**

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

**}**

**}**

**PROGRAM2:**

**import java.util.Scanner;**

**public class TestCustomer**

**{**

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

**Customer c=new Customer();**

**c.displayCustomer();**

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

**Customer c2=new Customer("Dhanashri","dhanu@gmail.com",23);**

**c2.displayCustomer();**

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

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

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

**String name=sc.next();**

**System.out.println("Enter the email: ");**

**String email=sc.next();**

**System.out.println("Enter the age : ");**

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

**Customer c3=new Customer(name,email,age);**

**c3.displayCustomer();**

**sc.close();**

**}**

**}**

**OUTPUT:**

**Name : pranju**

**Email : pranju@gmail.com**

**Age : 22**

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

**Name : jiva**

**Email : jiva@gmail.com**

**Age : 23**

**9:Create Date class with data members day,month,year.create getter setter for data members.writ display function to display date.**

**#include <stdio.h>**

**int main()**

**{**

**int i = 5;**

**printf("%d %d %d", i++, i++, i++);**

**return 0;**

**}**

**PROGRAM1:**

**public class Date**

**{**

**private int day;**

**private int month;**

**private int year;**

**public void setDay(int day)**

**{**

**this.day=day;**

**}**

**public int getDay()**

**{**

**return day;**

**}**

**public void setMonth(int month)**

**{**

**this.month=month;**

**}**

**public int getMonth()**

**{**

**return month;**

**}**

**public void setYear(int year)**

**{**

**this.year=year;**

**}**

**public int getYear()**

**{**

**return year;**

**}**

**public void displayDate()**

**{**

**System.out.println("Day : "+day);**

**System.out.println("Month : "+month);**

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

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

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

**}**

**}**

**PROGRAM2:**

**public class TestDate**

**{**

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

**{**

**Date d=new Date();**

**d.setDay(1);**

**d.getDay();**

**d.setMonth(11);**

**d.getMonth();**

**d.setYear(1997);**

**d.getYear();**

**d.displayDate();**

**}**

**}**

**OUTPUT:**

**Day : 1**

**Month : 11**

**Year : 1997**

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

**Date : 1/11/1997**

**ASSIGNMENT 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.**

**PROGRAM1:**

**package packag;**

**import java.util.Scanner;**

**publicclass Date**

**{**

**privateintdd;**

**privateintmm;**

**privateintyy;**

**publicvoid Acceptdate()**

**{**

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

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

**System.*out*.println("Entert the day");**

**dd = pj.nextInt();**

**System.*out*.println("Entert the month");**

**mm = pj.nextInt();**

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

**yy=pj.nextInt();**

**pj.close();**

**}**

**publicvoid DispalyDate()**

**{**

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

**System.*out*.println("Day"+dd);**

**System.*out*.println("Month"+mm);**

**System.*out*.println("Year"+yy);**

**}**

**}**

**PROGRAM2:**

**package packag;**

**publicclass TestDate**

**{**

**publicstaticvoid main(String[] args)**

**{**

**Date d=new Date();**

**d.Acceptdate();**

**d.DispalyDate();**

**}**

**}**

**OUTPUT:**

**---Date-----**

**Entert the day**

**5**

**Entert the month**

**5**

**Enter the year**

**99**

**----Display Date----**

**Day5**

**Month5**

**Year99**

**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.**

**PROGRAM1:**

**package packag;**

**import java.util.Scanner;**

**publicclass Customer**

**{**

**private String name;**

**private String email;**

**privateintage;**

**privatedoublecreditlimit;**

**publicvoid AccepInfo()**

**{**

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

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

**name = pj.next();**

**System.*out*.println("Enter the Email: ");**

**email = pj.next();**

**System.*out*.println("Enter the age: ");**

**age = pj.nextInt();**

**System.*out*.println("Enter the credittlimit: ");**

**creditlimit = pj.nextDouble();**

**}**

**publicvoid showDetails()**

**{**

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

**System.*out*.println("Email :" + email);**

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

**System.*out*.println("Creditlimit :" + creditlimit);**

**}**

**publicvoid setCre(doublelimit)**

**{**

**this.creditlimit = limit;**

**}**

**public Double getCre()**

**{**

**returncreditlimit;**

**}**

**}**

**PROGRAM2:**

**package packag;**

**publicclass Testcustomer**

**{**

**publicstaticvoid main(String[] args)**

**{**

**Customer c=new Customer();**

**c.AccepInfo();**

**c.showDetails();**

**c.setCre(60000);**

**c.getCre();**

**c.showDetails();**

**}**

**}**

**OUTPUT: Enter the name:**

**JIVA**

**Enter the Email:**

**jivafarkade4200@gmail.com**

**Enter the age:**

**22**

**Enter the credittlimit:**

**50000**

**Name JIVA**

**Email :jiva4200@gmail.com**

**Age :22**

**Creditlimit :50000.0**

**Name :PRANJALI**

**Email :pranjalinimje4200@gmail.com**

**Age :22**

**Creditlimit :60000.0**

**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.**

**PROGRAM1:**

**package packag;**

**import java.util.Scanner;**

**publicclass Employee**

**{**

**privateintid;**

**private String name;**

**privatedoublebasic\_salary, HRA, Medical=500, PF, PT=200 , net\_salary, gross\_salary;**

**publicvoid acceptinfo()**

**{**

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

**System.*out*.println("Enter the id :");**

**id=pj.nextInt();**

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

**name=pj.next();**

**System.*out*.println("Basic salary");**

**basic\_salary=pj.nextDouble();**

**pj.close();**

**}**

**publicvoid calculateGrossSalary()**

**{**

**HRA=basic\_salary\*(50.00/100.00);**

**gross\_salary= basic\_salary + HRA + Medical;**

**}**

**publicvoid calculateNetSalary()**

**{**

**PF=basic\_salary\*(12.00/100.00);**

**net\_salary=gross\_salary - (PT + PF);**

**}**

**publicvoid showdetails()**

**{**

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

**System.*out*.println("ID : "+id);**

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

**System.*out*.println(" basic\_salary: "+basic\_salary);**

**System.*out*.println("HRA : "+HRA);**

**System.*out*.println("Medical : "+Medical);**

**System.*out*.println("PF : "+PF);**

**System.*out*.println("net\_salary : "+net\_salary);**

**System.*out*.println("gross\_salary"+gross\_salary);**

**}**

**}**

**PROGRAM2: package packag;**

**publicclass TestEmployee**

**{**

**publicstaticvoid main(String[] args)**

**{**

**Employee e=new Employee();**

**e.acceptinfo();**

**e.calculateGrossSalary();**

**e.calculateNetSalary();**

**e.showdetails();**

**}**

**}**

**OUTPUT:**

**Enter the id :**

**25**

**Enter the name :**

**JIVA**

**Basic salary**

**50000**

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

**ID : 25**

**name : JIVA**

**basic\_salary: 50000.0**

**HRA : 25000.0**

**Medical : 500.0**

**PF : 6000.0**

**net\_salary : 69300.0**

**gross\_salary75500.0**

**ASSIGNMENT 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.**

**PROGRAM1:**

**package Program\_1.package1;**

**import java.util.Scanner;**

**publicclass Student**

**{**

**publicintrollNo;**

**public String name;**

**privatechargrade;**

**inttotalMarks;**

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

**publicvoid acceptInfo()**

**{**

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

**rollNo=*sc*.nextInt();**

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

**name=*sc*.next();**

**System.*out*.println("Enter total marks of student ..: ");**

**totalMarks=*sc*.nextInt();**

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

**grade=*sc*.next().charAt(grade);**

**}**

**publicvoid displayInfo()**

**{**

**System.*out*.println("Roll No : "+rollNo);**

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

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

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

**}**

**}**

**PROGRAM2:**

**package Program\_1.package2;**

**import Program\_1.package1.Student;**

**publicclass Batch**

**{**

**privatechardiv;**

**publicvoid acceptInfo()**

**{**

**System.*out*.println("Accepting info in Batch ");**

**}**

**publicvoid displayInfo()**

**{**

**System.*out*.println("Display info in Batch ");**

**}**

**publicstaticvoid main(String[] args)**

**{**

**Student std=new Student();**

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

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

**}**

**}**

**PROGRAM3:**

**package Program\_1.package3;**

**importjava.beans.Statement;**

**import Program\_1.package1.Student;**

**import Program\_1.package2.Batch;**

**publicclass Test**

**{**

**publicstaticvoid main(String[] args)**

**{**

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

**stud1.acceptInfo();**

**stud1.displayInfo();**

**Batch batch=new Batch();**

**batch.acceptInfo();**

**batch.displayInfo();**

**}**

**}**

**OUTPUT:**

**Enter the roll number ....:**

**25**

**Enter the name... :**

**JIVA**

**Enter total marks of student ..:**

**80**

**Enter Grade : A**

**Roll No : 25**

**Name : JIVA**

**Total Marks : 80**

**Grade : A**

**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.**

**PROGRAM1:**

**package program\_2;**

**public class Employee**

**{**

**private int empid;**

**private String name;**

**private String address;**

**private double salary;**

**public Employee(int empid, String name, String address, double salary)**

**{**

**super();**

**this.empid = empid;**

**this.name = name;**

**this.address = address;**

**this.salary = salary;**

**}**

**public void setEmpid(int empid)**

**{**

**this.empid = empid;**

**}**

**public int getEmpid()**

**{**

**return empid;**

**}**

**public void setName(String name)**

**{**

**this.name = name;**

**}**

**public String getName()**

**{**

**return name;**

**}**

**public void setAddress(String address)**

**{**

**this.address = address;**

**}**

**public String getAddress()**

**{**

**return address;**

**}**

**public void setSalary(double salary)**

**{**

**this.salary = salary;**

**}**

**public double getSalary()**

**{**

**return salary;**

**}**

**public void display()**

**{**

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

**System.out.println(+empid+" "+name+" "+address+" "+salary);**

**}**

**}**

**PROGRAM2:**

**package pranju1;**

**import java.util.Scanner;**

**import Assig3.Employee;**

**publicclass TestEmployee {**

**publicstaticvoid main(String[] args) {**

**Employee[] allEmps=new Employee[3];**

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

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

**{**

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

**intempid=sc.nextInt();**

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

**String name=sc.next();**

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

**String address=sc.next();**

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

**doublesalary=sc.nextDouble();**

**allEmps[i]=new Employee(empid,name,address,salary);**

**}**

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

**{**

**System.*out*.println(allEmps[i].getEmpid()+" "+allEmps[i].getName()+" "+allEmps[i].getAddress()+" "+allEmps[i].getSalary());**

**}**

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

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

**{**

**if(allEmps[i].getSalary()>20000)**

**System.*out*.println(allEmps[i].getEmpid()+" "+allEmps[i].getName()+" "+allEmps[i].getAddress()+" "+allEmps[i].getSalary());**

**}**

**}**

**}**

**OUTPUT: Enter empid :**

**123**

**Enter name :**

**jiva**

**Enter address :**

**pune**

**Enter salary :**

**800000**

**Enter empid :**

**321**

**Enter name :**

**pranjali**

**Enter address :**

**pune**

**Enter salary :**

**900000**

**null 0 class Assig3.Employee 0**

**null 0 class Assig3.Employee 0**

**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.**

**PROGRAM1:**

**package date;**

**import java.util.Scanner;**

**publicclass Date**

**{**

**privateintday;**

**privateintmonth;**

**privateintyear;**

**publicvoid acceptDate()**

**{**

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

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

**System.*out*.println("\nEnter the day :");**

**day=sc.nextInt();**

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

**month=sc.nextInt();**

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

**year=sc.nextInt();**

**sc.close();**

**}**

**publicvoid displayDate()**

**{**

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

**System.*out*.println("\nDay : "+day);**

**System.*out*.println("Month : "+month);**

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

**System.*out*.println("\n\nDate : "+day+"/"+month+"/"+year);**

**}**

**}**

**PROGRAM2:**

**package date;**

**publicclass TestDate**

**{**

**publicstaticvoid main(String[] args)**

**{**

**Date d=new Date();**

**d.acceptDate();**

**d.displayDate();**

**}**

**}**

**OUTPUT:**

**----------Accept Date---------**

**Enter the day :**

**5**

**Enter the month:**

**5**

**Enter the year:**

**1999**

**----------Display Date---------**

**Day : 5**

**Month : 5**

**Year : 1999**

**Date : 5/5/1999**

**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.**

**PROGRAM1:**

**package customer;**

**publicclass Customer**

**{**

**private String name;**

**private String email;**

**privateintage;**

**privatedoublecreditLimit;**

**public Customer()**

**{**

**this.name="jiva";**

**this.email="jiva@gmail.com";**

**this.age=25;**

**this.creditLimit=10000.00;**

**}**

**public Customer(String name, String email, intage, doublecreditLimit)**

**{**

**this.name=name;**

**this.email=email;**

**this.age=age;**

**this.creditLimit=creditLimit;**

**}**

**publicvoid getDetails()**

**{**

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

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

**}**

**publicvoid setCreditLimit(doublelimit)**

**{**

**this.creditLimit=limit;**

**}**

**publicdouble getCreditLimit()**

**{**

**returncreditLimit;**

**}**

**}**

**PROGRAM2:**

**package customer;**

**import java.util.Scanner;**

**publicclass TestCustomer**

**{**

**publicstaticvoid main(String[] args)**

**{**

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

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

**String name=sc.next();**

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

**String email=sc.next();**

**System.*out*.println("Enter age of customer : ");**

**intage=sc.nextInt();**

**System.*out*.println("Enter credit limit : ");**

**doublecreditLimit=sc.nextDouble();**

**Customer c1=new Customer(name,email,age,creditLimit);**

**c1.getDetails();**

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

**Customer c2=new Customer();**

**c2.getDetails();**

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

**System.*out*.println("Enter new credit limit : ");**

**doublenewCreditLimit=sc.nextDouble();**

**c2.setCreditLimit(newCreditLimit);**

**c2.getCreditLimit();**

**c2.getDetails();**

**}**

**}**

**OUTPUT: Enter the name :**

**jiva**

**Enter email :**

**jiva@gmail.com**

**Enter age of customer :**

**22**

**Enter credit limit :**

**50000**

**Name : pranjali**

**Credit Limit : 50000.0**

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

**Name : jiva**

**Credit Limit : 10000.0**

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

**Enter new credit limit :**

**60000**

**Name jiva**

**Credit Limit : 60000.0**