**Task\_01\_June\_2024**

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| /\*Q3. Menu Based Program in  1- Area of Right Triangle  2- Area of Equilateral Triangle  3- Area of Square  4- Area of Rectangle  5- Area of Circle  ------------------------------  Select your choice=4  Enter l=4  Enter b=5  Area of Rectangle=20.0 \*/   |  | | --- | | import java.util.Scanner;  class Task\_3{  public static void main (String args[]){    float s,l,b,h,ar,w,r;  Scanner sc=new Scanner(System.in);  System.out.println("1- Area of Right Triangle ");  System.out.println("2- Area of Equilateral Triangle ");  System.out.println("3- Area of Square ");  System.out.println("4- Area of Rectangle ");  System.out.println("5- Area of Circle ");  System.out.print("Select your choice = ");  int c=sc.nextInt();      switch(c){    case 1:  System.out.print("Enter b = ");  b=sc.nextFloat();  System.out.print("Enter h = ");  h=sc.nextFloat();  ar=1.0f/2\*b\*h;  System.out.println("Area of Right Triangle : "+ ar);  break;    case 2:  System.out.print("Enter s = ");  s=sc.nextFloat();  ar=1.732f/4\*s\*s;  System.out.println("Area of Equilateral Triangle : "+ (ar));  break;    case 3:  System.out.print("Enter s = ");  s=sc.nextFloat();  System.out.print("Area of Square : "+ (s\*s));  break;    case 4:  System.out.print("Enter l = ");  l=sc.nextFloat();  System.out.print("Enter b = ");  b=sc.nextFloat();  System.out.print(" Area of Rectangle : "+ (l\*b));  break;    case 5:  System.out.print("Enter r = ");  r=sc.nextFloat();  System.out.print("Area of Circle : "+ (3.14f\*r\*r));  break;  default:  System.out.println("Enter valid input");  }  }  } | |
| /\*Q4. Write a program to calculate average and Percentage  of the Students  Enter marks out of 100  Enter marks of math=45  Enter marks of English=68  Enter marks of science=78  Enter marks of art=48  Enter marks of computer=78  Total marks out of 500=317  Percent of marks=63\*/   |  | | --- | | import java.util.Scanner;  class Task\_4{  public static void main(String args[]){  int m,e,s,a,c;  Scanner sc=new Scanner(System.in);  System.out.println("Enter marks out of 100");  System.out.print("Enter marks of math = ");  m=sc.nextInt();  System.out.print("Enter marks of English = ");  e=sc.nextInt();  System.out.print("Enter marks of Science = ");  s=sc.nextInt();  System.out.print("Enter marks of Art = ");  a=sc.nextInt();  System.out.print("Enter marks of Computer = ");  c=sc.nextInt();  System.out.print(" Total marks out of 500= "+(m+e+s+a+c));  System.out.print("\n Percent of marks = "+(m+e+s+a+c)/5);  }  } | |
| /\*Q5. Given the Cost Price(CP) and Selling Price(SP) of a  product. The task is to Calculate the Profit or Loss.  Examples:  Input: CP = 1500, SP = 2000  Output: 500 Profit  Input: CP = 3125, SP = 1125  Output: 2000 Loss  Formula:  Profit = (Selling Price - Cost Price)  Loss = (Cost Price - Selling Price)\*/   |  | | --- | | import java.util.Scanner;  class Task\_5{    public static void main(String args[]){    int cp,sp;  Scanner sc=new Scanner(System.in);  System.out.print("CP = ");  cp=sc.nextInt();  System.out.print("SP = ");  sp=sc.nextInt();    int Loss = cp-sp;  int Profit = sp-cp;  if (Profit> 0)  {  System.out.print("Profit : "+Profit);  }  else if (Profit < 0)  {  System.out.println("Lose :"+Loss);  }    }  } | |
| /\*Q6. Voting Age Program  A person can votes if age is greater than or equal to 18.  Output:  Enter your age=19  You are eligible for vote.\*/   |  | | --- | | import java.util.Scanner;  class Task\_6{  public static void main(String args[]){  int age;  Scanner sc=new Scanner(System.in);  System.out.print("Enter your age = ");  age=sc.nextInt();  if(age>=18)  {  System.out.println("You are eligible for vote");  }  }  } | |
| /\*Q7.In cricket, 111 is known as Nelson number and a score  of 111 is considered as unlucky. It is named after Admiral  Nelson, who allegedly only had one arm, one leg and one  eye near the end of his life.  Multiple of 111 is also a Nelson number. These are known  as double Nelson for 222, triple Nelson for 333, quadruple  Nelson for 444 etc.\*/   |  | | --- | | import java.util.Scanner;  class Task\_7{  public static void main(String args[]){  int num;  Scanner sc=new Scanner(System.in);  System.out.print("Enter a number : ");  num=sc.nextInt();  if(num%111==0)  {  System.out.print(num+"is a Nelson number.");  }  else  {  System.out.println(num+"is not a Nelson number.");  }  }  } | |
| /\*Q8.Salary Program  Basic Salary: The foundational amount.  HRA (House Rent Allowance): Typically a percentage of  the basic salary.  DA (Dearness Allowance): Again, usually a percentage  of the basic.  Tax Deduction: A certain percentage deducted from the  gross salary (Basic + HRA + DA).  Get employee wages and number of days worked from  user and find Basic Pay, DA, HRA, PF and Net Pay. (Note  HRA, DA and PF are 10%,5%and 12% of basic pay  respectively.)  Sample Input 1: 300 30  Sample Output 1:  Basic Pay:3000  DA: 150 HRA:300  PF:360  Net Pay: 3090\*/   |  | | --- | | import java.util.Scanner;  class Task\_8{  public static void main(String args[]){  int wages,days;  Scanner sc=new Scanner(System.in);  System.out.print("Sample Input : ");  wages=sc.nextInt();  days=sc.nextInt();  int B\_pay=wages\*10;  System.out.println("Basic Pay : "+B\_pay);  System.out.println("DA : "+B\_pay\*5/100 +" HRA : "+B\_pay\*10/100);  System.out.println("PF : "+B\_pay\*12/100);  }  } | |