**Identify the suitable Conditional Statement-**

1. **Program to check even or odd**

import java.util.Scanner;

class CheckTheNumberIsEvenOrNot

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number: ");

double a= sc.nextDouble();

if (a % 2 ==0)

System.out.println("The Given Number is EVEN");

else

System.out.println("The Given Number is NOT EVEN or ODD NUMBER");

}

}

**2.Program to check positive or negative or zero**

import java.util.Scanner;

class Positiveornegative

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter a number: ");

double a = sc.nextDouble();

if (a>0)

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

else if(a<0)

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

else

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

}

}

1. **Program to check find the biggest among three numbers**

import java.util.Scanner;

class CHeckFirstNumisGreaterThanSecondandThirdornot

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

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

double a= sc.nextDouble();

System.out.println("Enter the Second Number: ");

double b= sc.nextDouble();

System.out.println("Enter the Third Number: ");

double c= sc.nextDouble();

if (a > b && a > c)

System.out.println("The First Number is GREATER than Both Second and third");

else

System.out.println("The First Number is NOT GREATER than Both Second and third");

}

}

1. **Program to check the biggest among 2 numbers**

import java.util.Scanner;

class FirstnoGreaterThanSecondNumber

{

    public static void main(String[] args)

    {

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter a number: ");

        double a= sc.nextDouble();

        System.out.println("Enter a number: ");

        double b = sc.nextDouble();

        if (a>b)

          System.out.println("The first Number is greater than the second ");

        else

            System.out.println("The first Number is NOT greater than the second");

    }

}

1. **Program to find the total and average of 5 subject marks**

import java.util.Scanner;

class AverageofFiveSubjects

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter first subject marks: ");

double a= sc.nextDouble();

System.out.println("Enter second subject marks: ");

double b= sc.nextDouble();

System.out.println("Enter third subject marks: ");

double c= sc.nextDouble();

System.out.println("Enter fourth subject marks: ");

double d= sc.nextDouble();

System.out.println("Enter fifth subject marks:: ");

double e= sc.nextDouble();

double average = (a + b + c + d + e)/5;

System.out.println("The total Average of all subject marks together = "+ average);

}

}

1. **Program to check the shape is triangle or rectangle or pentagon**

import java.util.Scanner;

class TriangleRectanglePentagon

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the number of the sides of the shape: ");

int a= sc.nextInt();

if(a != 3 && a != 4 && a != 5 ){

System.out.println("Invalid input try again ");

return;

}

else if (a == 3)

System.out.println("The shape is a triangle ");

else if (a == 4)

System.out.println("The shape is a parallelogram or rectangle ");

else

System.out.println("The shape is a pentagon ");

}

}

1. **Program to check the student pass or fail.**

import java.util.Scanner;

class CHeckThestudentPassesInallSubjectornot

{

    public static void main(String[] args)

    {

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter a PassValue:  ");

        double passvalue = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 1:  ");

        double S1 = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 2:  ");

        double S2 = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 3:  ");

        double S3 = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 4:  ");

        double S4 = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 5:  ");

        double S5 = sc.nextDouble();

        if (S1 >= passvalue && S2 >= passvalue && S3 >= passvalue && S4 >= passvalue && S5 >= passvalue)

          System.out.println("The STUDENT PASSED IN ALL SUBJECTS");

        else

           System.out.println("The STUDENT DIDN'T PASS IN ALL SUBJECTS");

    }

}

1. **Program to check user name and password is valid or not**

import java.util.Scanner;

class ValidPasswordOrNot

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.print("USERNAME : ");

String a = sc.next();

System.out.print("PASSWORD : ");

String b = sc.next();

String c ="siri";

String d = "ggg";

if(a.equals(c) && b.equals(d)){

        System.out.println("\t\t\t\n\nPASSWORD IS CORRECT, ACCOUNT AUTHORIZED !");

}

else

System.out.println("\t\t\t\n\nINVALID PASSWORD");

}

}

1. **Program to display Grade only if the student passed in all subjects.**

import java.util.Scanner;

class CHeckThestudentPassesInallSubjectornot

{

    public static void main(String[] args)

    {

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter a PassValue:  ");

        double passvalue = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 1:  ");

        double S1 = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 2:  ");

        double S2 = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 3:  ");

        double S3 = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 4:  ");

        double S4 = sc.nextDouble();

        System.out.println("Enter Marks Attained in Subject 5:  ");

        double S5 = sc.nextDouble();

        if (S1 >= passvalue && S2 >= passvalue && S3 >= passvalue && S4 >= passvalue && S5 >= passvalue)

          System.out.println("The STUDENT PASSED IN ALL SUBJECTS");

        else

           System.out.println("The STUDENT DIDN'T PASS IN ALL SUBJECTS");

    }

}

1. **Program to print triangle is equilateral, isosceles or scalene**

**Equilaterial : All sides are equal a==b==c**

**Isosceles: Any two sides are equal a==b or a==c or b==c**

**Scalene: No sides are equal a!=b!=c**

import java.util.Scanner;

class EquilateralIsocelesScalene

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

System.out.println("ENter the first side of a triangle");

double a = s.nextDouble();

System.out.println("ENter the second side of a triangle");

double b = s.nextDouble();

System.out.println("ENter the third side of a triangle");

double c = s.nextDouble();

if (a == b && b == c)

System.out.println("The triangle is Equilateral");

else if (a==b || a ==c || b==c)

System.out.println("The triangle is Isosceles");

else

System.out.println("The triangle is Scalene");

}

}

**11.Write a program to find the maximum between three numbers.**

import java.util.Scanner;

class MaximumInThreeNumbers

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

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

int a = s.nextInt();

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

int b = s.nextInt();

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

int c = s.nextInt();

if(a >b && a>c)

System.out.println(" a is greater in the three numbers");

else if (b >a && b >c)

System.out.println(" b is greater in the three numbers");

else

System.out.println(" c is greater in the three numbers");

}

}

1. **Write a program to check the number is divisible by both 5 and 11 or not.**

import java.util.Scanner;

class CHeckIfNumisDivisiblebyBoth5and11

{

    public static void main(String[] args)

    {

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter a Number:  ");

        double a= sc.nextDouble();

        if (a % 5 == 0 && a % 11 ==0)

          System.out.println("The Given Number is divisible by both 3 and 5");

        else

           System.out.println("The Given Number is NOT divisible by both 3 and 5");

    }

}

* 1. **Write a program to check the input character is alphabet or not**

import java.util.Scanner;

class CHeckcharacterisALPHABETorNot

{

    public static void main(String[] args)

    {

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter a character:  ");

        char a = sc.next().charAt(0);

        if (a >='A' && a >= 'Z'|| a >='a' && a >= 'z')

          System.out.println("The Character is ALPHABET");

        else

           System.out.println("The Character is NOT ALPHABET");

    }

}

* 1. **Write a program to check the input is even or not only if the number in between 30 and 50.**

import java.util.Scanner;

class InputNumIsEvenAndBetween30And50

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

System.out.println("Enter a number between 30 and 50");

int a = s.nextInt();

if(a >= 30 && a <= 50 ){

if (a % 2 == 0)

System.out.println(a + " is EVEN NUMBER");

else

System.out.println(a +" is ODD NUMBER");

}

else{

System.out.println("\t\t\t\t\tINVALID NUMBER");

System.out.println("Enter a valid number between 30 and 50 ");

}

}

}

* 1. **Program to check the input character in vowel or consonant**

import java.util.Scanner;

class VOWELorCONSONANT

{

public static void main(String[] args)

{

Scanner s = new Scanner(System.in);

System.out.println("Enter a character");

char ch = s.next().charAt(0);

if(ch=='a'|| ch=='e' || ch=='i'|| ch=='o' || ch=='u'){

System.out.println(ch+" is a VOWEL");

}

else if(ch =='b'|| ch=='c'|| ch== 'd' || ch== 'f' || ch== 'g' || ch== 'h' || ch== 'j'|| ch== 'k' || ch== 'l' || ch== 'm' || ch== 'n' || ch == 'p' || ch == 'q' || ch == 'r' || ch == 's' || ch == 't' || ch == 'v' || ch == 'w'|| ch == 'x'|| ch == 'y' || ch == 'z'){

System.out.println(ch+" is a CONSONANT");

}

else

System.out.println("NOT A CONSONANT OR VOWEL");

}

}

* 1. **Program to check the input character is alphabet or digit or special symbol**

import java.util.Scanner;

class CHeckcharacterisALPHABETordigitorSpecialSymbol

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter a character: ");

char a = sc.next().charAt(0);

if (a >='A' && a >= 'Z'|| a >='a' && a >= 'z')

System.out.println("The Character is ALPHABET");

else if (a >= '0' && a <= '9')

System.out.println("The Character is DIGIT");

else

System.out.println("The Character is SPECIAL SYMBOL");

}

}

* 1. **Program to find the biggest number only if the two numbers are not equal.**

import java.util.Scanner;

class CheckBiggestnumberOnlyifTwoNumbersareNotEqual

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

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

int a = sc.nextInt();

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

int b = sc.nextInt();

if (a != b){

if (a > b)

System.out.println(a+" is greater");

else

System.out.println(b+" is greater");

}

else

System.out.println("Both numbers are Equal");

}

}

* 1. **Program to check the person can donate blood or not**

**A) age >=18 and age <=60**

**B) Weight >= 50**

import java.util.Scanner;

class CanDonateBloodorNot

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

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

double age = sc.nextDouble();

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

double weight = sc.nextDouble();

if (age >=18 && age <=60 && weight >= 50)

System.out.println("The person can donate Blood");

else

System.out.println("The person cannot donate Blood");

}

}

* 1. **WAP to check whether the triangle is valid or not if all angles are given**

**A.Input first angle: 60**

**B.Input second angle: 90**

**C.Input third angle: 30**

import java.util.Scanner;

class TriangleValidorNot

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter the first angle: ");

double a = sc.nextDouble();

System.out.println("Enter the second angle: ");

double b = sc.nextDouble();

System.out.println("Enter the third angle: ");

double c = sc.nextDouble();

if (a+b+c==180)

System.out.println("The triangle is Valid");

else

System.out.println("The triangle is Not valid");

}

}

* 1. **Program to find angle of triangle if two angles are given.**

import java.util.Scanner;

class FindThirdSideofaTriangle

{

public static void main(String[] args)

{

double c;

Scanner sc = new Scanner(System.in);

System.out.println("Enter the first angle: ");

double a = sc.nextDouble();

System.out.println("Enter the second angle: ");

double b = sc.nextDouble();

c = 180-(a + b);

System.out.println("Enter the Third angle of the triangle is: "+c);

}

}

* 1. **Program to check profit or loss**
  2. **Profit = Selling Price - Cost Price**
  3. **Loss = Cost Price - Selling Price**
  4. **No Profit No Loss = Selling Price = Cost Price**

import java.util.Scanner;

class ProfitorLoss

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

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

double a = sc.nextDouble();

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

double b = sc.nextDouble();

if(a>b)

System.out.println("PROFIT "+(a-b));

else if(b>a)

System.out.println("LOSS "+(b-a));

else

System.out.println("No Profit No Loss = Selling Price = Cost Price");

}

}

**22.Write a C program to input basic salary of an Employee and calculate its Gross salary according to following:**

* 1. **Basic Salary <=10000 : HRA = 20 %, DA = 80%**
  2. **Basic Salary <=20000 : HRA = 25 %, DA = 90%**
  3. **Basic Salary <=20000 : HRA = 30 %, DA = 95%**

import java.util.Scanner;

class EmployeeGrossSalary

{

public static void main(String[] args)

{

double hra, da;

Scanner sc = new Scanner(System.in);

System.out.print("Enter the EMPLOYEE BASIC SALARY: ");

double bsal = sc.nextDouble();

if (bsal <= 0)

System.out.println("INVALID INPUT");

else{

if(bsal<=10000){

hra = bsal\* 20/100;

da = bsal \* 80/100;

System.out.println("The Gross Salary of the Employee is "+(bsal + hra + da));

}

else if(bsal<=20000){

hra = bsal\* 25/100;

da = bsal \* 90/100;

System.out.println("The Gross Salary of the Employee is "+(bsal + hra + da));

}

else if (bsal >20000){

hra = bsal\* 30/100;

da = bsal \* 95/100;

System.out.println("The Gross Salary of the Employee is "+(bsal + hra + da));

}

}

}

}

1. **WAP to check input is divisible with 3 and 5 or not**

**A.Input number is 15: Print "Divisible by both 3 and 5"**

**B.Input number is 9: Print "Divisible by both 3 and 5"**

**C.Input number is 10: Print "Divisible by both 3 and 5"**

**D.Input number is 7: Print "Divisible by both 3 and 5"**

import java.util.Scanner;

class CHeckIfNumisDivisiblebyBoth3and5

{

public static void main(String[] args)

{

Scanner sc = new Scanner(System.in);

System.out.println("Enter a Number: ");

int a= sc.nextInt();

if (a % 3 == 0 && a % 5 ==0)

System.out.println("Input number is "+a+": divisible by both 3 and 5");

else if (a % 3 == 0 && a % 5 != 0)

System.out.println("Input number is "+a+": divisible by both 3 but NOt by 5");

else if (a % 3 !=0 && a % 5 == 0)

System.out.println("Input number is "+a+": divisible by both 5 but NOt by 3");

else

System.out.println("Input number is "+a+": NOT divisible by both 3 and 5");

}

}

* 1. **Same as 15th Q**

* 1. **Same as 16th Q**