**Day 1 Assignment**

1. WAP to display Hello World!

class Main {

public static void main(String[] args) {

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

}

}

1. WAP to add, subtract two numbers with or without there corresponding operator.

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter first number: ");

int a = sc.nextInt();

System.out.print("Enter second number: ");

int b = sc.nextInt();

int sum = a + b;

int diff = a - b;

System.out.println("Sum is: " + sum);

System.out.println("Difference is: " + diff);

}

}

1. WAP to swap two values of 2 no.

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter first number: ");

int a = sc.nextInt();

System.out.print("Enter second number: ");

int b = sc.nextInt();

int temp = a;

a = b;

b = temp;

System.out.println("After swapping:");

System.out.println("First number: " + a);

System.out.println("Second number: " + b);

}

}

1. WAP to swap two values without using third variable.

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter first number: ");

int a = sc.nextInt();

System.out.print("Enter second number: ");

int b = sc.nextInt();

a = a + b;

b = a - b;

a = a - b;

System.out.println("After swapping:");

System.out.println("First number: " + a);

System.out.println("Second number: " + b);

}

}

1. WAP to calculate the area of a circle.

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter radius of circle: ");

double r = sc.nextDouble();

double area = Math.PI \* r \* r;

System.out.println("Area of the circle is: " + area);

}

}

1. WAP to find the cube of a number.

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

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

int n = sc.nextInt();

int cube = n \* n \* n;

System.out.println("Cube of the number is: " + cube);

}

}

1. WAP to compute quotient and reminder of given number.

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter dividend: ");

int dividend = sc.nextInt();

System.out.print("Enter divisor: ");

int divisor = sc.nextInt();

int quotient = dividend / divisor;

int remainder = dividend % divisor;

System.out.println("Quotient: " + quotient);

System.out.println("Remainder: " + remainder);

}

}

1. Take a 4 digit number as a input from the user and WAP to perform the addition of their digits without using loop. (n=1257 result=1+2+3+4+5=15)

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a 4-digit number: ");

int n = sc.nextInt();

int d1 = n / 1000;

int d2 = (n / 100) % 10;

int d3 = (n / 10) % 10;

int d4 = n % 10;

int sum = d1 + d2 + d3 + d4;

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

}

}

1. WAP to calculate the area of circle and triangle.

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

// Circle

System.out.print("Enter radius of circle: ");

double r = sc.nextDouble();

double circleArea = Math.PI \* r \* r;

// Triangle

System.out.print("Enter base of triangle: ");

double base = sc.nextDouble();

System.out.print("Enter height of triangle: ");

double height = sc.nextDouble();

double triangleArea = 0.5 \* base \* height;

System.out.println("Area of circle: " + circleArea);

System.out.println("Area of triangle: " + triangleArea);

}

}

1. Take a 4 digit number as a input from the user and WAP to perform the addition of first and last digits without using loop. (n=4263 result=4+3=7)

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.print("Enter a 4-digit number: ");

int n = sc.nextInt();

int firstDigit = n / 1000;

int lastDigit = n % 10;

int sum = firstDigit + lastDigit;

System.out.println("Sum of first and last digits: " + sum);

}

}

1. WAP to enter marks of five students and calculate total marks, average marks and percentage.

import java.util.Scanner;

class Main {

public static void main(String[] args) {

Scanner sc = new Scanner(System.in);

System.out.println("Enter marks of 5 subjects:");

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

int sub1 = sc.nextInt();

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

int sub2 = sc.nextInt();

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

int sub3 = sc.nextInt();

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

int sub4 = sc.nextInt();

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

int sub5 = sc.nextInt();

int total = sub1 + sub2 + sub3 + sub4 + sub5;

double average = total / 5.0;

double percentage = (total / 500.0) \* 100;

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

System.out.println("Average Marks: " + average);

System.out.println("Percentage: " + percentage + "%");

}

}