

ASSIGNMENT-2

Q1. Write a Java program that accepts two integers from the user and prints the sum, the difference, the product, the average, the distance (the difference between the integers), the maximum (the largest of the two integers), and the minimum (the smallest of the two integers).

➤ Code:

```
import java.util.Scanner;

public class assignment2_1 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

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

        int num1 = sc.nextInt();

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

        int num2 = sc.nextInt();

        System.out.println("The Sum is: " + (num1 + num2));

        System.out.println("The Difference is: " + (num1 - num2));

        System.out.println("The Average Is: " + ((num1+num2)/2));

        System.out.println("The distance is: " + (num1 - num2));

        System.out.println("The maximum number is: " +
(Math.max(num1,num2)));

        System.out.println("The minimum number is: " +
(Math.min(num1,num2)));

    }

}
```

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➤ Output:

Enter First Number:

45

Enter Second Number:

35

The Sum is: 80

The Difference is: 10

The Average Is: 40

The distance is: 10

The maximum number is: 45

The minimum number is: 35

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Q2. Write a Java program that reads a number and displays the square, cube, and fourth power.

➤ **Code:**

```
import java.util.Scanner;

public class assignment2_2 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter A Number");

        int num = sc.nextInt();

        System.out.println("Square of the number is: " +
(Math.pow(num,2)));

        System.out.println("Cube of the number is: " +
(Math.pow(num,3)));

        System.out.println("Fourth Power of the number is: " +
(Math.pow(num,4)));

    }

}
```

➤ **Output:**

Enter A Number

5

Square of the number is: 25.0

Cube of the number is: 125.0

Fourth Power of the number is: 625.0

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Q3. Write a Java program to convert minutes into years and days.

➤ **Code:**

```
import java.util.Scanner;

public class Assignment2_3 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter The Minutes: ");

        int min = sc.nextInt();

        System.out.println("Years = " + (min / 525600));

        System.out.println("Days = " + (min / 1440));

    }

}
```

➤ **Output:**

Enter The Minutes:

2880

Years = 0

Days = 2

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Q4. Write a Java program to convert temperature from Fahrenheit to Celsius degrees.

➤ **Code:**

```
import java.util.Scanner;

public class Assignment2_4 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.println("Enter Fahrenheit Temperature: ");

        double f = sc.nextDouble();

        double c = 0.555555555556*(f - 32);

        System.out.println("Celsius degrees is: " + c);

    }

}
```

➤ **Output:**

Enter Fahrenheit Temperature:

-40

Celsius degrees is: -40.00000000

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Q5. Write a Java program to demonstrate the applications of various types of logical operators.

➤ **Code:**

```
public class assignment2_5 {  
    public static void main(String[] args) {  
        int a = 20,b = 30;  
        if (a > b && a < 10){  
            System.out.println("Hello");  
        } else if (a < b || a > 20) {  
            System.out.println("Hii");  
        } else if (!(a < b)) {  
            System.out.println("Hey");  
        }  
    }  
}
```

➤ **Output:**

Hii

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Q6. Write a Java program to demonstrate the applications of various types of comparison and assignment operators.

➤ **Code:**

```
public class assignment2_6 {  
    public static void main(String[] args) {  
        int a=10,b=20;  
        if(a<=b){  
            System.out.println("A is less than or equal to B");  
        } else if (a >= b) {  
            System.out.println("A is more than or equal to B");  
        }else if (a == b) {  
            System.out.println("A is equal to B");  
        }else if (a != b) {  
            System.out.println("A is not equal to B");  
        }else if (a > b) {  
            System.out.println("A is more than B");  
        }else if (a < b) {  
            System.out.println("A is less than B");  
        }  
    }  
}
```

➤ **Output:**

A is less than or equal to B