

#### Assignments CW

1. Write a Java program to calculate area of an equilateral triangle.
2. Write a Java program to enter marks of five subjects and calculate total, average and percentage
3. Write a Java program to enter P, T, R and calculate Compound Interest.

4. What is the output?

```
class PrePostDemo {  
    public static void main(String[] args){  
        int i = 3;  
        i++;  
        System.out.println(i);  
        ++i;  
        System.out.println(i);  
        System.out.println(++i);  
        System.out.println(i++);  
        System.out.println(i);  
    }  
}
```

5) What is the output?

```
public static void main(String[] args) {  
    int a,b;  
    int resulta,resultb,resultm;  
    float resultd;  
    Scanner sc=new Scanner(System.in);  
    System.out.print("Enter a:");  
    a=sc.nextInt();  
    System.out.print("Enter b:");  
    b=sc.nextInt();  
    resulta=a+b;  
    resultb=a-b;  
    resultm=a*b;  
    resultd=(float)a/b;  
    System.out.println("The result of adding is "+resulta);  
    System.out.println("The result of subtracting is "+resultb);  
    System.out.println("The result of multiplying is "+resultm);  
    System.out.println("The result of dividing is "+resultd);  
}
```

#### Assignments HW

1) What is the output?

```
public class OperatorMath {  
    public static void main(String[] args) {  
        int a= 5 ; b = 4 ; c = 3 ;  
        System.out.println(a++ + b * ++c);  
        System.out.println("a = " + a + " b= " + b + " c = " + c);  
        System.out.println(b*5/a + b++ + b);  
        System.out.println("a = " + a + " b= " + b + " c = " + c);  
    }  
}
```

```
}  
}
```

2)

```
public class Sunlight {  
    public static void main(String[] args) {  
        // Distance from sun (150 million kilometers)  
        int kmFromSun = 150000000;  
        int lightSpeed = 299792458; // meters per second  
        // Convert distance to meters.  
        int mFromSun = kmFromSun * 1000;  
        int seconds = mFromSun / lightSpeed;  
        System.out.print("Light will use ");  
        int min = seconds / 60;  
        seconds = seconds - (min*60);  
        System.out.print(min + " minute(s) and " + seconds + " second(s)");  
        System.out.println(" to travel from the sun to the earth.");  
    }  
}
```

3) Consider the following code snippet:

```
int i = 10;
```

```
int n = i++%5;
```

What are the values of i and n after the code is executed?

What are the final values of i and n if instead of using the postfix increment operator (i++), you use the prefix version (++i)?

4) Write a Java program to compute the specified expressions and print the output.

$((25.5 * 3.5 - 3.5 * 3.5) / (40.5 - 4.5))$

5) Write a Java program to compute a specified formula.

Specified Formula :

$4.0 * (1 - (1.0/3) + (1.0/5) - (1.0/7) + (1.0/9) - (1.0/11))$

6. Write a Java program to enter temperature in °Celsius and convert it into °Fahrenheit.

7. Write a Java program to enter temperature in Fahrenheit(°F) and convert it into Celsius(°C)