Assignment No 5

1. Write your own program using arithmetic operators.

Program –

```
package com.edubridge.assignment5;
import java.util.Scanner;
public class ArithmeticOperators
{
	public static void main(String[] args)
	{
		// TODO Auto-generated method stub
		int a,b,result;
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter First Number : ");
		a = sc.nextInt();
		System.out.println("Enter Second Number : ");
		b = sc.nextInt();

		result = a+b;
		System.out.println("Result = " +result);

		result = a-b;
		System.out.println("Result = " +result);

		result = a*b;
		System.out.println("Result = " +result);

		result = a/b;
		System.out.println("Result = " +result);
	}
}
```

2. Write your own program using arithmetic assignment operators.

Program –

```
package com.edubridge.assignment5;
import java.util.Scanner;
public class ArithmeticAssignmentOp
{
	public static void main(String args[])
	{
		// TODO Auto-generated method stub
		int a,b,result;
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter First Number : ");
		a = sc.nextInt();
		System.out.println("Enter Second Number : ");
		b = sc.nextInt();

		a+=b;		//a = a+b
```

```
            System.out.println("Addition is = " +a);

            a-=b;       //a = a-b
            System.out.println("Subtraction is = " +a);

            result = a*b;    //a = a * b
            System.out.println("Multiplication is = " +a);

            result = a/b;    //a = a / b
            System.out.println("Division is = " +a);
      }
}
```

3. Write your own program using relational operators.

Program –

```
package com.edubridge.assignment5;
import java.util.Scanner;
public class RelationalOperator
{
      public static void main(String[] args)
      {
            // TODO Auto-generated method stub
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter First Number : ");
            int a = sc.nextInt();
            System.out.println("Enter Second Number : ");
            int b = sc.nextInt();
            System.out.println("a>b " +(a>b));
            System.out.println("a!=b " +(a!=b));
            System.out.println("a==b " +(a==b));
            System.out.println("a>=b " +(a>=b));
            System.out.println("a<b " +(a<b));
            System.out.println("a<=b " +(a<=b));
            System.out.println("a>b " +(a>b));
      }
}
```

4. Write your own program using logical operators.

Program –

```
package com.edubridge.assignment5;
import java.util.Scanner;
public class LogicalOperator
{
      public static void main(String[] args)
      {
            // TODO Auto-generated method stub
```

```
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter First Number : ");
            int a = sc.nextInt();
            System.out.println("Enter Second Number : ");
            int b = sc.nextInt();
            System.out.println("Enter Third Number : ");
            int c = sc.nextInt();
            System.out.println("&& Operator " + (a>b && a>c));
            System.out.println("|| Operator " + (b>a || b>c));
            System.out.println("! Operator " + (c>a != c>b));
      }
}
```

5. Write your own program to show the use of assignment operator.

Program –

```
package com.edubridge.assignment5;
import java.util.Scanner;
public class AssignmentOperator
{
      public static void main(String[] args)
      {
      // TODO Auto-generated method stub
      //Assignment operators are used in Java to assign values to
      variables.
      //example, string fname = 'adarsh'  lname = 'sharma'; Here, =
      is the assignment operator.
            Scanner sc = new Scanner(System.in);
            System.out.println("Enter First Name : ");
            String fname = sc.next();  //value assign to a variable
            fname using = operator
            System.out.println("Enter Last Name : ");
            String lname = sc.next();
            System.out.println("Your Name is : " +fname+lname);

      }
}
```

6. Write a program to check age of student is greater than 18.

Program –

```
package com.edubridge.assignment5;
import java.util.Scanner;
public class AgeChecker
{
```

```
	public static void main(String[] args)
	{
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter Your Age : ");
		int age;
		age = sc.nextInt();
		boolean check = age>18;
		System.out.println("You are " +check);
	}
}
```

7. Write a program to check number is even or odd.

```
package com.edubridge.assignment5;

import java.util.Scanner;
public class EvenOdd
{
	public static void main(String[] args)
	{
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter Any Number : ");
		int a = sc.nextInt();
		String res = a % 2 == 0 ? "Even " : "Odd ";
		System.out.println(res);
	}
}
```

8. Write a program to check whether number is greater than 100 and 200.

Program –

```
package com.edubridge.assignment5;

import java.util.Scanner;
public class GreaterThan
{
	public static void main(String[] args)
	{
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		System.out.println("Enter Number : ");
		int num = sc.nextInt();
		int a = 100, b = 200;
		String check = num > a && num > b ? "true " : "false";
```

```
            System.out.println(check);
      }
}
```

9. Write a program to check whether both numbers are same or not.

Program –

```
package com.edubridge.assignment5;

import java.util.Scanner;
public class SameOrNot
{
      public static void main(String[] args)
      {
            // TODO Auto-generated method stub
            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();
            boolean result = a == b;
            System.out.println("Numbers are equal : " +result);
      }
}
```