ASSIGNMENT – 5

1. Write your own program using arithmetic operarors?

```
import java.util.Scanner;

public class ArithmeticOperators {

public static void main(String[] args) {

int a;

int b;

Scanner obj = new Scanner(System.in);

System.out.println("enter the number 1:");

a = obj.nextInt();

System.out.println("enter the number 2");

 b = obj.nextInt();

 System.out.println(" the sum of two number is" + (a+b ));

 System.out.println(" the sum of two number is" + (a-b));

 System.out.println(" the sum of two number is" + (a*b));

 System.out.println(" the sum of two number is" + (a/b));

}


}
```

2.Write your own program using arthmetic assignment operators.

```
import java.util.Scanner;

public class AssignmentOperator {

public static void main(String[] args) {

int a = 5;

int b = 4;

int c = 3;

float d;

d = a + b;

System.out.println(" the initialized variables are");

System.out.println("a=5 ");

System.out.println("b=4 ");

System.out.println("c=3 ");

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

c += d;

System.out.println("c+=d operator ans is " + c);

c -= d;

System.out.println("c-=d operator ans is " + c);

c *= d;

System.out.println("c*=d operator ans is " + c);

c /= d;

System.out.println("c/=d operator ans is " + c);

}

}
```

3.write your own program using relational operator?

```
import java.util.Scanner;

public class RelationalOperator {

public static void main(String[] args) {

int a;

int b;

int result;

Scanner obj = new Scanner(System.in);

System.out.println("Enter the number 1");

a = obj.nextInt();

System.out.println("Enter the number 2");

b = obj.nextInt();

System.out.println(("is number 1 greater than number 2: ") + (a > b));

System.out.println(("is number 1 lesser than number 2: ") + (a < b));

System.out.println(("is number 1 greater than or equal to number 2: ") + (a >= b));

System.out.println(("is number 1 lesser than or equal to number 2: ") + (a > b));

System.out.println(("is number 1 not equal to number 2: ") + (a != b));

System.out.println(("is number 1 equal to: ") + (a == b));

}
```

4.Write your own program using logical operators

```
import java.util.Scanner;

public class LogicalOperators {

public static void main(String[] args) {

boolean a;
```

```
boolean bool1;

boolean bool2;

Scanner obj = new Scanner(System.in);

System.out.println("enter the boolean 1:");

bool1 = obj.nextBoolean();

System.out.println("enter the boolean 2:");

bool2 = obj.nextBoolean();

System.out.println("bool1 && bool2 = " + (bool1 && bool2));

System.out.println("bool1 || bool2 = " + (bool1 || bool2));

System.out.println("enter the number to perform not operator");

a = obj.nextBoolean();

System.out.println((" the not operator ") + (!(a)));

}

}
```

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

```
import java.util.Scanner;

public class CheckAge {

public static void main(String[] args) {

System.out.println(" the program to check the age is greater than 18");

int age;

String result;

Scanner obj = new Scanner(System.in);

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

age = obj.nextInt();

result = (age > 18) ? " the age is greater than 18" : "the age is not greater than 18";

System.out.println(result);
```

}

}

6.write a program to check whether a number is even or odd?

```
package operators;

import java.util.Scanner;

   class EvenOdd {

public static void main(String[] args)

{

int number=0;

Scanner                         input=new

Scanner(System.in);

System.out.println("enter  the  number:

");number=input.nextInt();

String result=(number%2==0)?"even number" :"odd number";

System.out.println(result+" "+number);

input.close();

}

}
```

7.write a program to check whether number is greater than 100 and 200.

```
import java.util.Scanner;
public class GreaterThan {
public static void main(String[] args) {
int number;
String result;
Scanner obj = new Scanner(System.in);
System.out.println("Enter the number ");
number = obj.nextInt();
result = ((number > 100) && (number > 200)) ? " the number is greater than 100 and 200": "
the number is not greater than 100 and 200";
System.out.println(result);
}
}
```

8.write a program to check whether both numbers are same or not.

```
import java.util.Scanner;

public class CheckSameNumber {

public static void main(String[] args) {

int number1;

int number2;

String result;

Scanner obj = new Scanner(System.in);

System.out.println(" Enter the number 1");

number1 = obj.nextInt();

System.out.println(" Enter the number 2");

number2 = obj.nextInt();

result = (number1 == number2) ? " both numbers are same" : " both numbers are not same";

System.out.println(result);

}

}
```