1.Write your own program using arithmetic operators.

```
//Write your own program using arthmetic operators.
package Assignment_5_;
import java.util.*;

public class Arthmetic {

	public static void main(String[] args) {
		int a = 0,b=0;
		Scanner sc=new Scanner(System.in);
		System.out.println("Enter the A value:");
		a = sc.nextInt();
		System.out.println("Enter the B value:");
		b = sc.nextInt();

		System.out.println("Add:"+(a+b));
		System.out.println("Mul:"+(a*b));
		System.out.println("Div:"+(a/b));
		System.out.println("Sub:"+(a-b));
		System.out.println("Mod:"+(a%b));
		sc.close();
	}

}
```

2.Write your own program using arithmetic assignment operators.

```
//Write your own program using arthmetic assignment operators.
package Assignment_5_;

import java.util.Scanner;

public class ArthmAss {
	public static void main(String[] args) {

		int a = 0,b=0;
		Scanner sc=new Scanner(System.in);
		System.out.println("Enter the A value:");
		a = sc.nextInt();
		System.out.println("Enter the B value:");
		b = sc.nextInt();
		System.out.println(a=b);
		System.out.println(a+=b);
		System.out.println(a-=b);
		System.out.println(a*=b);
```

```
            System.out.println(a/=b);
            System.out.println(a%=b);



      }

}
```

3.Write your own program using relational operators.

```
//Write your own program using relational operators.
package Assignment_5_;

import java.util.Scanner;

public class Relational {
      public static void main(String[] args) {
            int a = 0,b=0;
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter the A value:");
            a = sc.nextInt();
            System.out.println("Enter the B value:");
            b = sc.nextInt();

            // == operator
           System.out.println(a == b);  // false

           // != operator
           System.out.println(a != b);  // true

           // > operator
           System.out.println(a > b);  // false

           // < operator
           System.out.println(a < b);  // true

           // >= operator
           System.out.println(a >= b);  // false

           // <= operator
           System.out.println(a <= b);
      }

}
```

4.Write your own program using logical operators.

```
package Assignment_5_;

import java.util.Scanner;

public class logical {
	public static void main(String[] args) {
		int a = 0,b=0;
		Scanner sc=new Scanner(System.in);
		System.out.println("Enter the A value:");
		a = sc.nextInt();
		System.out.println("Enter the B value:");
		b = sc.nextInt();


		// && operator
		System.out.println((a > b) && (a > b)); // true
		System.out.println((a > b) && (a < b));  // false

		// || operator
		System.out.println((a < b) || (a > b)); // true
		System.out.println((a > b) || (a < b)); // true
		System.out.println((a < b) || (a < b));  // false

		// ! operator
		System.out.println(!(a == b)); // true
		System.out.println(!(a > b));  // false
	}

}
```

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

```
package Assignment_5_;

import java.util.Scanner;

public class AgeOffStudent {
	public static void main(String[] args) {
		int age;
		Scanner sc = new Scanner(System.in);
		System.out.println(" Please Enter Your Age: ");
		age = sc.nextInt();

		String Message = (age >= 18)? " You are greater than
18 " :
```

```
                                    " You are lessthan 18 ";
            System.out.println(Message);
            sc.close();
      }

}
```

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

```
package Assignment_5_;

import java.util.Scanner;

public class OddOrEven {
      public static void main(String[] args) {

            int Num = 0;
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter the Number:");
            Num = sc.nextInt();
              String evenOdd = (Num % 2 == 0) ? "even" : "odd";

               System.out.println(Num + " is " + evenOdd);
            sc.close();
      }

}
```

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

```
package Assignment_5_;

import java.util.Scanner;

public class Num100 {
      public static void main(String[] args) {
            int Num = 0;
            Scanner sc=new Scanner(System.in);
            System.out.println("Enter the Number:");
            Num = sc.nextInt();
```

```
          String evenOdd = (Num > 100 && Num <200) ? "greater
than 100" : "lessthan 100";
         System.out.println(Num + " is " + evenOdd);
          sc.close();
     }
}
```

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

```
package Assignment_5_;

import java.util.Scanner;

public class NumSameOrNot {
     public static void main(String[] args) {
          int Num = 0,Num1=0;
          Scanner sc=new Scanner(System.in);
          System.out.println("Enter the Number:");
          Num = sc.nextInt();
          Num1 = sc.nextInt();
          String evenOdd = (Num == Num1 ) ? "equal" : "Not
equal";
         System.out.println(Num + " is " + evenOdd);
          sc.close();
     }

}
```