1.Write your own program using arthmetic operators.
--->

```
package Assignment5;
//binary arithmetic operators
import java.util.Scanner;
public class Ques1 {
 public static void main(String[] args) {
  // TODO Auto-generated method stub
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter a first Number: ");
    int num1=sc.nextInt();
    System.out.println("Enter a second Number: ");
    int num2=sc.nextInt();

    int sum=num1+num2;
    int sub=num1-num2;
    int mul=num1*num2;
    int div=num1/num2;
    int mod=num1%num2;

    System.out.println("Addition: "+sum);
    System.out.println("Subtraction: "+sub);
    System.out.println("Multiplication: "+mul);
    System.out.println("Division: "+div);
    System.out.println("Modulus: "+mod);

    System.out.println("prints then Increment "+num1++);       //post increment
    System.out.println("Increment then Prints: "+ ++num2);     //pre increment
    System.out.println("Prints then Decrement: "+num1--);      //posr decrement
    System.out.println("Decrement then Prints: "+ --num2);     //pre decrement
 }
}
```

2.Write your own program using arthmetic assignment operators.
--->

```
package Assignment5;
//Assigned operations are +=, -=, *=, /=, %=
import java.util.Scanner;
public class Ques2 {

 public static void main(String[] args) {
  // TODO Auto-generated method stub
  Scanner sc=new Scanner(System.in);
     System.out.println("Enter a First Number: ");
     int num1=sc.nextInt();
     System.out.println("Enter a Second Number: ");
     int num2=sc.nextInt();

     System.out.println(num1+=num2);  //this performs a=a+b
     System.out.println(num1-=num2);  //a=a-b
     System.out.println(num1*=num2);  //a=a*b
     System.out.println(num1/=num2);  //a=a/b
     System.out.println(num1%=num2);  //a=a%b
 }
```

```
}
```

3.Write your own program using relational operators.
--->

```
package Assignment5;
//relational operators are ==,!=,>,<,<=,>=

import java.util.Scanner;
public class Ques3 {

 public static void main(String[] args) {
  // TODO Auto-generated method stub
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the First number: ");
    int num1= sc.nextInt();
    System.out.println("Enter the Second number: ");
    int num2=sc.nextInt();
    //it will give the boolean value
    System.out.println("num1 > num2 is "+ (num1>num2));
    System.out.println("num1 < num2 is "+ (num1<num2));
    System.out.println("num1 == num2 is "+ (num1==num2));
    System.out.println("num1 >= num2 is "+ (num1>=num2));
    System.out.println("num1 <= num2 is "+ (num1<=num2));
    System.out.println("num1 != num2 is "+ (num1!=num2));

 }

}
```

4.Write your own program using logical operators.
--->

```
package Assignment5;
//logical operators &&,||,!

public class Ques4 {

 public static void main(String[] args) {
  // TODO Auto-generated method stub
     boolean a = true;
     boolean b = false;
     System.out.println("a: "+a);
     System.out.println("b: "+b);
     System.out.println("a && b: " + (a && b));  //both condition should be true
     System.out.println("a || b: "+(a || b));    //one of the condition should be true
     System.out.println("!a: "+ !a);             //the result will be opposite in not operator
     System.out.println("!b: "+ !b);
 }

}
```

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

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

```
package Assignment5;
```

```
import java.util.Scanner;
public class Ques5 {

 public static void main(String[] args) {
  // TODO Auto-generated method stub
     Scanner sc=new Scanner(System.in);
     System.out.println("Enter a student age: ");
     int age=sc.nextInt();
     System.out.println(age>18);
 }

}
```

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

--->

```
package Assignment5;

import java.util.Scanner;

public class Ques6 {

 public static void main(String[] args) {
  // TODO Auto-generated method stub
  Scanner sc=new Scanner(System.in);
      System.out.println("Enter a number: ");
      int num=sc.nextInt();
      System.out.println("If number is even then it will print true or else flase ");
      System.out.println(num%2==0);   //checks even and odd number
 }

}
```

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

--->

```
package Assignment5;

import java.util.Scanner;

public class Ques7 {

 public static void main(String[] args) {
  // TODO Auto-generated method stub
  Scanner sc=new Scanner(System.in);
      System.out.println("Enter a number: ");
      int num=sc.nextInt();
      System.out.println(num>100 || num>200); //it will check whether a number is greater than 100 and 200

 }

}
```

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

--->

```
package Assignment5;

import java.util.Scanner;
```

```
public class Ques8 {

 public static void main(String[] args) {
  // TODO Auto-generated method stub
  Scanner sc=new Scanner(System.in);
      System.out.println("Enter a number1: ");
      int num1=sc.nextInt();
      System.out.println("Enter a number2: ");
      int num2=sc.nextInt();
      System.out.println(num1 == num2);
 }

}
```

Note: dont use the if and switch case. write a simple programs without using if and switch in all the above programs.