Write your own program using arthmetic operators.

```java
import java.util.Scanner;
public class Assignment5_Q1 {
        public static void main(String[] args) {
                //write your own program using arthmethic operators.
                Scanner sc = new Scanner(System.in);
                int a,b,sum;
                System.out.println("Enter 1st number:");
                a=sc.nextInt();
                System.out.println("Enter 2nd number:");
                b=sc.nextInt();
                sum=a+b;
                int diff=a-b;
                int mul=a*b;
                System.out.println("Sum of 1st number and 2nd number is: "+sum);
                System.out.println("diff of 1st number and 2nd number is: "+diff);
                System.out.println("multipication  is: "+mul);



        }

}
```

Write your own program using arthmetic assignment operators.

```java
import java.util.Scanner;
public class Assignment5_Q2 {

        public static void main(String[] args) {
                // Write your own program using arthmetic assignment operators.
                Scanner sc =new Scanner(System.in);
                System.out.println("Enter a number:");
                int num=sc.nextInt();
                System.out.println(num+=10);
                System.out.println(num-=10);
                System.out.println(num*=10);
                System.out.println(num/=10);
                System.out.println(num%=10);

        }

}
```

Write your own program using relational operators.
```java
import java.util.Scanner;
public class Assignment5_Q3 {

        public static void main(String[] args) {
                // Write your own program using relational operators.
                Scanner sc =new Scanner(System.in);
                System.out.println("Enter  a number a");
                int a=sc.nextInt();
                System.out.println("Enter  a another number b");
                int b=sc.nextInt();
```

```java
        System.out.println("a is less than b:"+(a<b));
        System.out.println("a is less than equal to b:"+(a<=b));
        System.out.println("a is greater than b:"+(a>b));
        System.out.println("a is greater than equal to b:"+(a>=b));
        System.out.println("a is equal to b:"+(a==b));
        System.out.println("a is not equal to b:"+(a!=b));


    }

}
```

Write your own program using logical operators.

```java
package System.out;
import java.util.Scanner;

public class Assigmnent5_Q4 {

    public static void main(String[] args) {
            // Write your own program using logical operators.
            int num1,num2,num3;
            Scanner sc =new Scanner(System.in);
            System.out.println("Enter num1:");
            num1=sc.nextInt();
            System.out.println("Enter num2:");
            num2=sc.nextInt();
            System.out.println("Enter num3:");
            num3=sc.nextInt();
            System.out.println((num1<num2) && (num1<num3));
            System.out.println((num1>num2) || (num1>num3));
            System.out.println((num1>num2) || (num1>num3));
            System.out.println(!(num1==num2));
    }

}
```

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

```java
package System.out;
import java.util.Scanner;

public class Assignment5_Q5 {

    public static void main(String[] args) {

            // Write your own program to show the use of assignment operator.
            Scanner sc =new Scanner(System.in);
            System.out.println("enter name:");
            String name=sc.next();
            System.out.println("your  entered name is:"+name);


    }

}
```

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

```java
package System.out;
import java.util.Scanner;

public class Assignment5_Q6 {

        public static void main(String[] args) {
//              Write a program to check age of student is greater than 18.
                Scanner sc =new Scanner(System.in);
                System.out.println("Enter the age:");
                int age=sc.nextInt();
                String result=age>18?"major":"minor";
                System.out.println(result);

        }

}
```

Write a program to check number is even or odd.

```java
package System.out;
import java.util.Scanner;

public class Assignment5_Q7{

        public static void main(String[] args) {
                // Write a program to check number is even or odd.

                Scanner sc =new Scanner(System.in);
                System.out.println("Enter a number:");
                int num=sc.nextInt();
                String check=num%2==0?"number is even":"number is odd";
                System.out.println(check);

        }

}
```

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

```java
package System.out;
import java.util.Scanner;

public class Assignment5_Q8 {

        public static void main(String[] args) {
                // write a program to check whether number is greater than 100 and 200.

                Scanner sc =new Scanner(System.in);
                System.out.println("Enter a number:");
                int num=sc.nextInt();
                int num1=100, num2=200;
```

```java
            String result = num > num1 && num > num2 ? "number is greater than 100 and 200." : "number is
not  greater than 100 and 200.";
            System.out.println(result);



    }
}
```

write a program to check whether both numbers are same or not.
```java
package System.out;
import java.util.Scanner;

public class Assignment5_Q9{

    public static void main(String[] args) {
        //write a program to check whether both numbers are same or not.

        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();
        String check=num1==num2?"numbers are equal":"numbers are not equal";
        System.out.println(check);

    }

}
```

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