1) Programs on Arithmatic Operations.

```
class Add1
{
 public static void main(String []args)
 {
int a=10;
int b=20;
int c=5;
int d=2;

System.out.println("Add result:"+(a+b));
System.out.println("Sub result:"+(b-a));
System.out.println("Mul result:"+(c*d));
System.out.println("Div result:"+(a/d));
System.out.println("Mod result:"+(a%d));
}
}
```

2) Program on Logical Operators.

```
 class Demo1
{
 public static void main(String []args)
 {
boolean a=true;
boolean b=false;

System.out.println("AND result: "+(true && true));
System.out.println("AND result: "+(true && true));
System.out.println("OR result: "+(true || false));
System.out.println("OR result: "+(false || false));
System.out.println("AND result: "+(a && b));
System.out.println(" OR result: "+(b || a));
}
}
```

3) Program on Comparsion Operators.

```
class Comp
{
 public static void main(String []args)
 {
int a=10;
int b=20;
int c=5;
int d=2;

System.out.println("Equal to result:"+(a==b));
System.out.println("Not Equal to result:"+(a!=b));
System.out.println("Greater than result:"+(b>a));
System.out.println("Lesser than result:"+(c<d));
```

```java
System.out.println("Greater than or Equal to  result:"+(a<=d));
System.out.println("Lesser than or Equal to result:"+(a>=d));
}
}
```