Assignment-05 Priyanka Ray

### 1. Write your own program using arthmetic operators.

```
import java.util.Scanner;
public class AirthmeticOperatorProgram {
public static void main(String[] args) {
// TODO Auto-generated method stub
//Program for <a href="mainto:airthmetic">airthmetic</a> calculation i.e. +,-,*,/,%
int a,b;
Scanner <u>scanner=new Scanner(System.in);</u>
System.out.println("Enter the first number: ");
a=scanner.nextInt();
System.out.println("Enter the second number: ");
b=scanner.nextInt();
int add=a+b;
System.out.println("Addition of entered number: "+add);
int sub=a-b;
System.out.println("Subtraction of entered number: "+sub);
int mul=a*b;
System.out.println("Multiplication of entered number: "+mul);
float div=a/b;
System.out.println("Division of entered number: "+div);
int mod=a%b;
System.out.println("Modulus of entered number: "+mod);
}
```

}

2. Write your own program using arthmetic assignment operators.

```
Code:
```

```
import java.util.Scanner;
public class ArthmeticAssignmentOperator {
public static void main(String[] args) {
// TODO Auto-generated method stub
//own program using Arithmetic asignment operators i.e. =,+=,-=,/=,*=
int a;
Scanner <u>scanner=new Scanner(System.in);</u>
System.out.println("Enter the number to perform the operation: ");
a=scanner.nextInt();
<u>a=a</u>;
System.out.println("Result for a=a :"+a);
a+=a;
System.out.println("Result for a+=a:"+a);
a-=a;
System.out.println("Result for a-=a :"+a);
a/=a;
System.out.println("Result for a/=a :"+a);
a*=a;
System.out.println("Result for a*=a :"+a);
}
}
```

# 3. Write your own program using relational operators.

```
import java.util.Scanner;
public class ArthmeticRelationalOperator {
public static void main(String[] args) {
// TODO Auto-generated method stub
//Program <a href="fro-equation-rich">fro-equation-rich</a> elational operator i.e. ==,<,>,<=,>=,!=
int a,b;
Scanner <u>scanner=new Scanner(System.in);</u>
System.out.println("Enter the numbers to perform the operations");
System.out.println("enter the first number: ");
a=scanner.nextInt();
System.out.println("Enter the second number: ");
b=scanner.nextInt();
System.out.println(a+"=="+b+":"+(a==b));
System.out.println(a+"<"+b+":"+(a<b));</pre>
System.out.println(a+">"+b+":"+(a>b));
System.out.println(a+"<="+b+":"+(a<=b));</pre>
System.out.println(a+">="+b+":"+(a>=b));
System.out.println(a+"!="+b+":"+(a!=b));
}
}
```

# 4. Write your own program using logical operators.

```
Code:
```

```
import java.util.Scanner;
public class LogicalOperatorProgram {
public static void main(String[] args) {
// TODO Auto-generated method stub
//Program for logical operators i.e. &&, ||,!
Scanner scanner=new Scanner(System.in);
int a,b,c,caseno;
System.out.println("Enter the first number");
a=scanner.nextInt();
System.out.println("Enter the second number");
b=scanner.nextInt();
System.out.println("Enter the third number");
c=scanner.nextInt();
System.out.println("The result for a>b && a>c is: "+(a>b && a>c));
System.out.println("The result for a>b || a>c is: "+(a>b || a>c));
System.out.println("The result for !(a>b) is: "+!(a>b));
System.out.println("The result for !(a>c) is: "+!(a>c));
}
}
```

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

```
import java.util.Scanner;
public class UseOfAssignmentOperator {
public static void main(String[] args) {
// TODO Auto-generated method stub
```

```
//use of Arithmetic asignment operators i.e. =,+=,-=,/=,*=
int a,b; //decraring the variable
Scanner scanner=new Scanner(System.in);
System.out.println("Enter the two number to perform the operation: ");
System.out.println("Enter the first number: ");
a=scanner.nextInt();
System.out.println("Enter the second number: ");
b=scanner.nextInt();
a=b;
System.out.println("Result fo a=b :"+a);
a+=b;
System.out.println("Result for a+=b:"+a);
a-=b;
System.out.println("Result for a-=b :"+a);
a/=b;
System.out.println("Result for a/=b :"+a);
a*=b;
System.out.println("Result for a*=b :"+a);
}
}
6. Write a program to check age of student is greater than 18.
Code:
import java.util.Scanner;
public class AgeGreaterThenEighteen {
public static void main(String[] args) {
// TODO Auto-generated method stub
```

```
// Program to check the age of thr student should be greater then 18
int age;
Scanner scanner=new Scanner(System.in);
System.out.println("Enter the age of the student: ");
age=scanner.nextInt();
if(age>18)
{
System.out.println("Age is greater then 18 which is "+age);
}
else if(age==18)
{
System.out.println("Age is equal to 18 which is ");
}
else
{
System.out.println("Age is greater less 18 which is "+age);
}
}
}
7. Write a program to check number is even or odd.
Code:
import java.util.Scanner;
public class NumberIsEvenOdd {
public static void main(String[] args) {
// TODO Auto-generated method stub
//Program to check the number is even or odd
int num;
Scanner scanner=new Scanner(System.in);
System.out.println("Enter the number: ");
num=scanner.nextInt();
```

```
if(num%2==0) {
System.out.println("Number is even");
}
else {
System.out.println("Number is odd");
}
}
```

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

# Code:

```
import java.util.Scanner;
public class GreaterThenHundredTwoHundred {
public static void main(String[] args) {
// TODO Auto-generated method stub
//Program to check the number is greater then 100 and 200
int num;
Scanner <u>scanner=new Scanner(System.in);</u>
System.out.println("Enter the number: ");
num=scanner.nextInt();
if(num>100 && num>200) {
System.out.println("Number is greater then 100 and 200");
}
else {
System.out.println("Number is less then 100 and 200");
}
}
}
```

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

```
import java.util.Scanner;
public class NumberSameOrNot {
public static void main(String[] args) {
// TODO Auto-generated method stub
//Program to check weather entered numbers are same or not
int num1, num2;
Scanner scanner=new Scanner(System.in);
System.out.println("Enter first number: ");
num1=scanner.nextInt();
System.out.println("Enter second number: ");
num2=scanner.nextInt();
if(num1==num2) {
System.out.println("Entered numbers are same");
}
else {
System.out.println("Numbers are not same");
}
}
}
```