**Shweta Powar**

**\*Assignment 5\***

**1)Write your own program using arithmetic operators.**

**Program**:

import java.util.\*;

public classArithmeticOpe {

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("Addition:"+(a+b));

System.*out*.println("Subtraction:"+(a-b));

System.*out*.println("Mulitiplication:"+(a\*b));

System.*out*.println("Division:"+(a/b));

System.*out*.println("Mod:"+(a%b));

sc.close();

}

}

**2)Write your own program using arithmetic assignment operators.**

**Program**:

importjava.util.Scanner;

public classArithmeticAss {

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.**

**Program:**

import java.util.Scanner;

public class RelationalOpe {

public static void main(String[] args) {

inta = 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); // == operator

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

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

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

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

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

}

}

**4)Write your own program using logical operators.**

**Program:**

import java.util.Scanner;

public class LogicalOpe {

public static void main(String[] args) {

inta = 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));

System.*out*.println((a>b) && (a<b));

// || operator

System.*out*.println((a<b) || (a>b));

System.*out*.println((a>b) || (a<b));

System.*out*.println((a<b) || (a<b));

// ! operator

System.*out*.println(!(a == b));

System.*out*.println(!(a>b));

}

}

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

**Program:**

import java.util.Scanner;

public classAgeOfStudent {

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 less than 18 ";

System.*out*.println(Message);

sc.close();

}

}

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

**Program:**

import java.util.Scanner;

public classOddOrEven {

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 result = (num % 2 == 0) ? "even" : "odd";

System.*out*.println(num + " is " + result);

sc.close();

}

}

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

**Program**:

import java.util.Scanner;

public class CheckNumber {

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 result = (num> 100 && num<200) ? "greater than 100" : "less than 200";

System.*out*.println(num + " is " + result);

sc.close();

}

}

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

**Program:**

import java.util.Scanner;

public classNumSameOrNot {

public static void main(String[] args) {

int num1 = 0,num2=0;

Scanner sc=new Scanner(System.*in*);

System.*out*.println("Enter the Number:");

num1 = sc.nextInt();

num2 = sc.nextInt();

String result = (num1 == num2 ) ? "Same" : "Not Same";

System.*out*.println(num1+”and ”+ num2 + " are " + result);

sc.close();

}

}