**Submission Requirements**

1. Submit a word document to Omnivox under assignment submission section.
2. Assignments should be submitted before deadline. Late submissions will not be acceptable.
3. Add screenshot for the output screen.

**Introduction to Programming**

**Answer the following questions.**

1. WAP to find the values for following expressions: (x =10, y=15)

* x \* ++y
* x \* y++

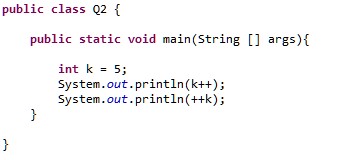
1. WAP to calculate the sum, subtraction, multiplication and division of two numbers. (values must be entered by the user)
2. If x = 60, y = 200, b = 2, and c = 160 then what will be the value of following expressions.

* x < y
* x + y < y
* x \* b == 120
* (x==60) && y < b
* (y!=60) || (c > x)
* !(x > 60)

1. If a = 4.5, I = 1, j = 2, k = 3 then find the value of following

* k/j\*(a+2.3\*I)
* j\*k+a

1. If a three digit number entered by the user then WAP to calculate sum of all the digits in that number and print the sum.
2. Predict the output for the following code..



1. Show the logical error in the following code

int i=0;

if(i<100 || i>0) // check if 0<i<100

i++;

System.out.println(i);

1. Write a java program according to the following specification:

Display a message asking the user to enter a student id between 0 and 9999999.

Get the user input.

Verify the student id. If the user input is bigger than 9999999 or less than 0, then display an error message, and exit the program.

Display the user input.

Display a message asking the user to enter a password with the length between 6 and 20.

Get the user input.

Verify the password. If the password length is not between 6 and 20, exit the program.

Display the user input.

Display a message asking the user to enter a string.

Display the user input.

Change the string to upper case.

Display the new string.

Exit the program.

1. What is the main feature of java? What makes java platform independent?

Java is object-oriented programming language, the most important feature of java is it is platform independent. The byte code of java can be run on any device anywhere anytime and that is what makes it platform independent.

1. What is the purpose of static in main method? If we don’t keep main method static then what will happen?

The static method are invoked by the runtime engine **without** having to instantiate any objects. Having the static keyword means the method can be called without creating any objects first. Otherwise, it would need an instance of the object to be executed.