**NAMES: MURINDANYI SUDI**

**PROGRAM DOING: COMPUTER ENGINEERING**

**YEAR: SECOND YEAR**

**REGISTRATION NUMBER: 16/X/2338/PS**

**Question Three**

1. Write a declaration for an array that will hold 50 type long values
2. Show a statement that assigns the value of 123.456 to the 50th element in the array from the above question
3. What is the values of x when the following statement in complete?

for (x = 0; x < 100; x++)

1. What is the value of ctr when the following statement is complete?

for(ctr = 2; ctr < 10; ctr += 3)

1. Write a while statement to count from 1 to 100 by 3s
2. What is wrong with the following code fragment (MAXVALUES is not the problem !)

for (counter = 1; counter < MAXVALUES; counter++ );

printf("\nCounter = %d", counter);

**Answers:**

1. long values[50];
2. long values[49] = 123.456;
3. x is equal to 99 when the statement is complete
4. The value of ctr is 8 when the statement is complete
5. #include <stdio.h>

main(){

int x = 1;

while(x <= 100){

printf("The value of x : %d\n ", x);

x += 3;

}

}

//Comment: The X will be counted from 1 to 100 by adding 3

1. We don’t have to put the semicolon to terminate the for loop and the statements for a for loop should be enclosed.