Homework
Programmation in c Language

Lawrence Auguste

Classe : кэ-142

Test 1

1. How many loops are there in C ++? List them.

- There are 3 types of loops for, do, while

When is the cycle used for?

- The cycle used for the initialization the main program.

Write syntax loop for

- **for** (declare and initialise counter; test value of counter; change value of counter)
  {
      statement(s)
  }

What is iteration?

- **Iteration** is the process where a set of instructions or statements is executed repeatedly for a specified number of time or until a condition is met. These statements also alter the control flow of the program and thus can also be classified as **control statements** in C Programming Language.

What is a cycle counter?

- A **program counter** is a register in a computer processor that contains the address (location) of the instruction being executed at the current time. As each instruction gets fetched, the **program counter** increases its stored value by 1.

What will the program output as a result?

- 8 1

- 9 0

7. What is the difference between cycles while and do while and a cycle for

- A) **The while loop. General form**
- The while loop is called a loop with a precondition
- b) **The general form of the cycle operator 'do … while'**
- The 'do … while' loop should be used in cases where the iteration should be done at least once. Unlike 'for' and 'while' loops, in the 'do … while' loop, the condition is checked when the loop exits (and not when entering the loop). The 'do … while' loop is also called a cycle with a postcondition.

c) In C++, the 'for' loop can have a very wide implementation and application. The 'for' loop is also called a cycle with a parameter.

8. Write syntax loop while

- The syntax of a **while** loop in C programming language is −
- while(condition) { statement(s); }

9. What is iteration?

- **Iteration** is the process where a set of instructions or statements is executed repeatedly for a specified number of time or until a condition is met. These statements also alter the control flow of the program and thus can also be classified as **control statements** in C Programming Language.

10. What will the program output as a result?

While loop is executed only **when** given condition **is** true. **Whereas**, **do**-**while loop is** executed **for** first time irrespective **of** the condition. After executing **while loop for** first time, then condition **is** checked.

Write syntax loop do while

- The syntax of a **do...while** loop in C programming language is −
- do { statement(s); } while(condition);

13. What will the program output as a result?

- "Hello!

- "bye!