dt: 14/12/2020

define switch-case ?

=>switch-case statement is used when we want to select one from multiple options or cases.

syntax:

```
switch(value)
{
 case 1:
      statements;
 break;
 .
 .
 case n:
    statements;
 break;

 default:
    statements;
}
```

Execution behaviour:

=>The switch-value is compared with available options and if the switch-value is matched with any option then the statements under the

option are executed and switch-case statement execution is stopped using 'break' statement.

=>If the switch-value is not matched with any available options then default is executed.

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define 'break' statement?

=>'break' statement is used to stop the switch-case execution and transfer the execution control outof switch-case statement.

define 'continue' statement?

=>'continue' statement is used to skip the lines from the iteration.

Note:

=>when the 'continue' statement is executed then the lines declared after continue statement are skipped from the iteration.

define 'return' statement?

=>'return' statement is used to return the value after method execution,in this process the execution control is transferred from one method to another method.

define exit statement?

=>'exit' statement is used to stop the program execution.

syntax:

```
System.exit(0);
```

---

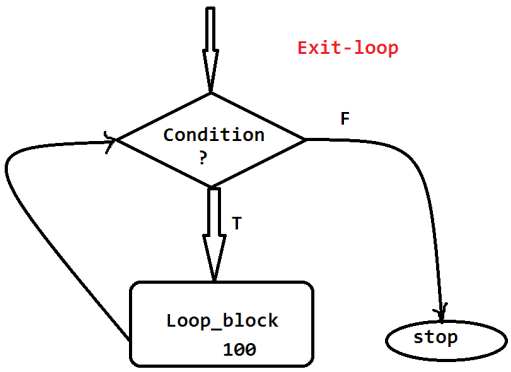
define while loop?

=>In while looping structure the condition is checked first and if the condition is true then the loop_block is executed.This process is repeated until the condition is false.

syntax:

```
while(condition)
{
 Loop_block;
}
```

Diagram:



while Loop

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define for loop?

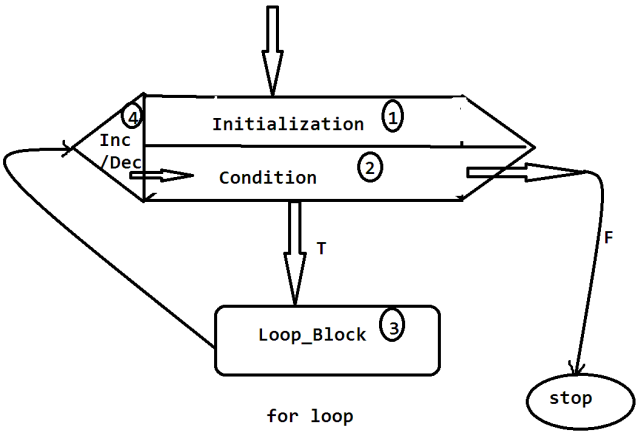
=>'for' loop is more simplified in declaration when compared to while loop,because Initialization,Condition and Incre/Decre declared in the

same line.

syntax:

```
for(Initialization;Condition;Incre/Decre)
{
 //Loop_body
}
```

Diagram:



Execution process:

1.Variable Initialization

2.Check the condition

3.If the condition is true then execute loop_block

4.Increment/Decrement

5.repeat the steps 2,3 and 4 until the condition is false.

Note:

=>'for' loop is preferable when we use nested loops.

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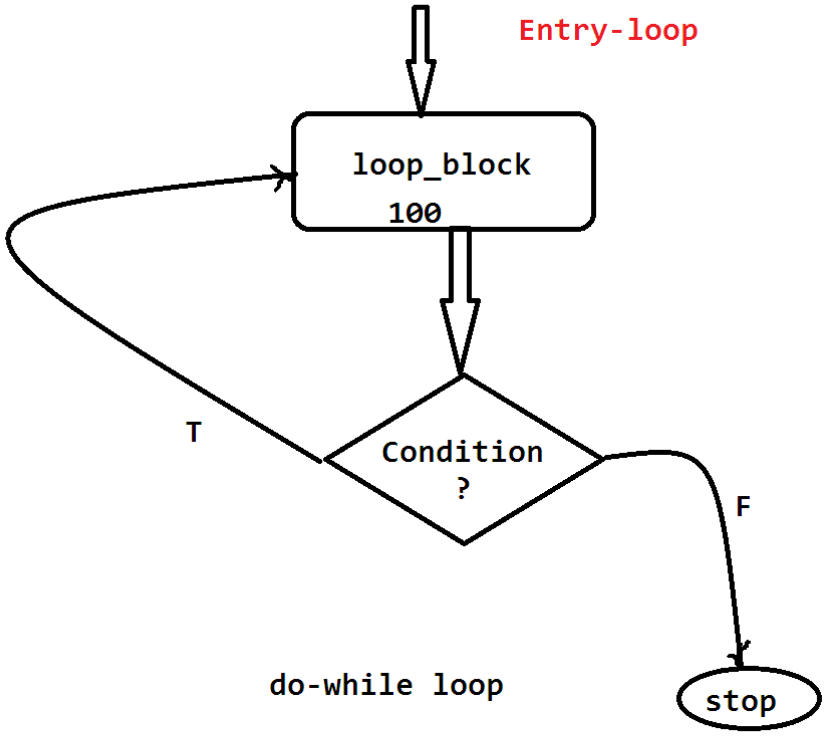
define do-while loop?

=>In do-while looping structure the loop_block is executed first and then the condition is checked.This process is repeated until the condition is false.

syntax:

```
do
{
 //loop_block;
}
while(condition);
```

Diagram:



do-while loop

Note:

=>In realtime we use while loop when compared to do-while loop,

because while is highperformance when compared to do-while loop.

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