```
Mrror_mod.mirror_object
Activity
                 Lrror_mod.use_x = False
                 Lrror_mod.use_y = True
                 | rror_mod.use_z = False
```

Write code(s) in C++ to print first five even and odd numbers using

```
ntext.scene.objects.acti
"Selected" + str(modific
vpes.Operator):
 X mirror to the select
ject.mirror_mirror_x*
100
```

Do While Loop

Do while Loop executes a Block of code until a test condition becomes false.



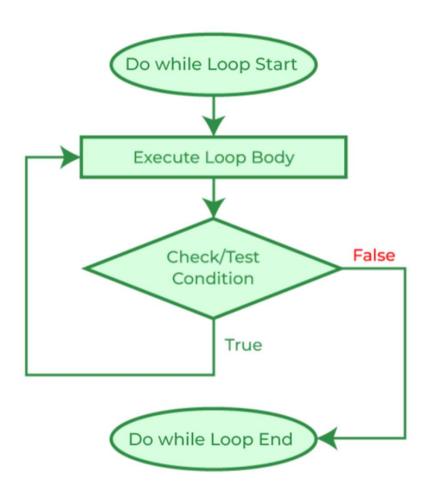
The main difference between a do-while loop and the while loop is in the do-while loop the condition is tested at the end of the loop body.



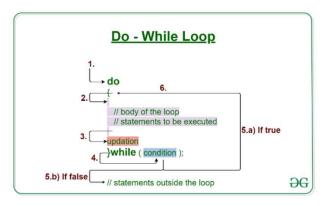
i.e do-while loop is exit controlled whereas the other two loops are entry-controlled loops.

In a do-while loop, the loop body will **execute at least once** irrespective of the test condition.

Very Important!



### Do While Loop Flowchart



### Syntax

```
// C++ program to illustrate do-while loop
#include <iostream>
using namespace std;
int main()
{
    // Initialization expression
    int i = 2;

    do {
        // Loop body
        cout << "Hello World\n";

        // Update expression
        i++;

    }
    // Test expression
    while (i < 1);
    return 0;
}</pre>
```

## Example#01 do while Loop

```
// C++ program to illustrate do-while loop
#include <iostream>
using namespace std;
int main()
    // Initialization expression
    int i = 1;
    do {
        // Loop body
        cout << i << endl;</pre>
        // Update expression
        i++;
    // Test expression
    while (i <= 5);
    return 0;
```

## Example#02 do while loop

```
while(1)
{
    cout<<"This loop will run infinitely";
}
return 0;
}</pre>
```

```
do
{
     {
        cout<<"This loop will run infinitely";
     }
}</pre>
```

while(1);

# Infinite While and Do while

### Nested Loops

Nested loop means a loop statement inside another loop statement. That is why nested loops are also called as "loop inside loop".



```
for ( initialization; condition; increment ) {
   for ( initialization; condition; increment ) {
      // statement of inside loop
   }
   // statement of outer loop
}
```

# Syntax of Nested for

```
for(int i=1; i<=5; i++){
    cout<<"Multiplication table of: "<<i<<endl;
    for(int j=1; j<=10; j++){
        cout<<i<<"*"<<j<<"="<<ii*j<<"\n";
    }
}</pre>
```

### Example