Nested if

Basic Syntax of Nested if-else

The nesting of if-else depends on the situation but a general syntax can be defined as:

```
if(condition1) {
   if(condition2) {
      // Statement 1
   }
   else {
      // Statement 2
   }
}
else {
   if(condition3) {
      // Statement 3
   }
   else {
      // Statement 4
   }
}
```

```
#include <iostream>
using namespace std;
int main() {
        int n = 6;
        // Outer if statement
        if (n % 2 == 0) {
        // Inner if statement
        if (n % 3 == 0) {
        cout << "Divisible by 2 and 3";
    }
        else {
        cout << "Divisible by 2 but not 3";
    }
        }
        else {
        cout << "Not Divisible by 2";
  }
  return 0;
```

.....

switch

Syntax:

```
switch (n)
{
    case 1: // code to be executed if n = 1;
    break;
    case 2: // code to be executed if n = 2;
    break;
    default: // code to be executed if
        // n doesn't match any cases
}
```

Nested-Switch Statement: Nested-Switch statements refers to Switch statements inside of another Switch Statements. **Syntax:**

```
#include <iostream>
using namespace std;
int main()
  int x = 1, y = 2;
  // Outer Switch
  switch (x) {
  // If x == 1
  case 1:
    // Nested Switch
    switch (y) {
    // If y == 2
    case 2:
      cout << "Choice is 2";</pre>
      break;
    // If y == 3
    case 3:
```

```
cout << "Choice is 3";
    break;
  }
  break;
// If x == 4
case 4:
  cout << "Choice is 4";
  break;
// If x == 5
case 5:
  cout << "Choice is 5";</pre>
  break;
default:
  cout << "Choice is other than 1, 2 3, 4, or 5";
}
return 0;
```