

Introduction to Programming

Group 4

Main Thread

Exercise 5 & 6

IF & ELSE

```
1  #include <iostream>
2
3  int main() {
4      int a = 5;
5
6      if (a == 5)
7      {
8          std::cout << "a is 5\n";
9      }
10     else
11     {
12         if (a > 5)
13         {
14             std::cout << "a is greater than 5\n";
15         }
16         else
17         {
18             std::cout << "a is less than 5\n";
19         }
20     }
21
22
23     return 0;
24 }
```


SWITCH

FOR

WHILE & DO-WHILE


```
1  #include <iostream>
2
3  int main() {
4      int a = 5;
5
6      while (a < 10) {
7          cout << a++ << "\n";
8      }
9
10     a = 10;
11
12     do {
13         cout << a++ << "\n";
14     } while (a < 10);
15
16     return 0;
17 }
```


RETURN & BREAK & CONTINUE


```

1  #include <iostream>
2
3  void log(int);
4
5  int main() {
6
7      for (int i = 0; i < 6; ++i) {
8          if (i % 2 == 0) continue;
9          std::cout << i << "\n";
10     }
11
12     for (int i = 0; i < 6; ++i) {
13         if (i % 2 == 0) break;
14         std::cout << i << "\n";
15     }
16
17     log(1);
18     log(5);
19     log(2);
20
21     return 0;
22 }
23
24 void log(int a)
25 {
26     switch (a)
27     {
28     case 1:
29     {
30         std::cout << "a is 1\n";
31         return;
32     }
33     case 2:
34     {
35         std::cout << "a is 2\n";
36         return;
37     }
38     default:
39     {
40         std::cout << "a is " << a << "\n";
41         return;
42     }
43     }
44 }

```


Thank you for watching