```
lf
 1 #include <iostream>
 2 using namespace std;
 3
4□ int main(int argc, char** argv) {
 5
 6
        //read user mark, and check if pass or fail
 7
        float mark;
        cout<<"Enter Mark: ";
 8
 9
        cin>>mark;
10
        if (mark >= 50){
11申
12
             cout<<"You have passed the exam"<<endl;</pre>
             cout<<"Your mark is "<<mark;</pre>
13
14 ⊦
15
        return 0;
16 <sup>L</sup> }
```

<u>If-else</u>

```
1 #include <iostream>
    using namespace std;
 4 pint main(int argc, char** argv) {
 5
        //read user mark, and check if pass or fail
 6
 7
        float mark;
        cout<<"Enter Mark: ";
 8
9
        cin>>mark;
10
11 □
        if (mark >= 50){
             cout<<"You have passed the exam"<<endl;</pre>
12
13
         }else{
             cout<<"You have failed the exam"<<endl;</pre>
14
15
        cout<<"Your mark is "<<mark;</pre>
16
17
        return 0;
18
19 <sup>L</sup> }
```

If-else-if

```
2
          //Grade checker
          //assume all marks less than 80 will get B+
 3
 4
          //you finish this code to in order to include all
 5
          //grade letters
 6
 7
          float mark;
 8
          cout<<"Enter your mark:";
 9
         cin>>mark;
10
11
          if (mark >= 90) {
   cout<<"A+";
12
          }else if (mark >= 85 \&\& mark < 90) {
13
14
              cout<<"A";
15
          }else if (mark >= 80 \&\& mark < 85) //[80, 85)
16
17
              cout << "A-";
18
          }else{
19
              cout << "B+";
20
```

Nested If-else

```
2
              This code takes integer number, age from
3
              user and checks if user can get license.
4
              Assumption: User above or equal to 24 can get license.
5
          */
6
         int age;
7
         cin>>age;
8
         if (age < 18) {
9
              //here
10
              cout<<"You are teenage";</pre>
11
              cout<<"Get ID first";</pre>
12
          }else{
              // >= 18
13
14
              if (age < 24) {
15
                  //age is between 18 and 24 [18, 24)
16
                  cout << "You can get ID";
17
18
                  //now the age is greater or equal to 24 [24, ...)
19
                  cout << "You can get license";
2.0
              }
```

Elias Debelo Gesi Haramaya University, 2023