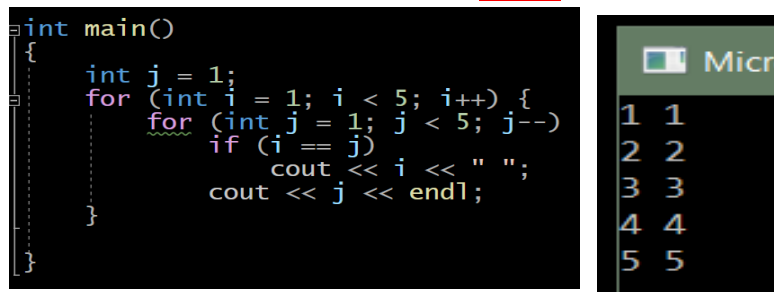


Duration: 2 Hours – Don't use google search or course slides, just answer what you know.

Exam 1 (Total: 100 Points)

- 1- **What** are the differences between If Condition and Switch, with example? **mention three differences.** (15 Points)
- 2- **What** is the difference between do-while and for, with example? (15 Points)
- 3- **What** are primitive data types in C++? (10 Points)
- 4- **Write** a function take an integer array and return average, then call it in main function. (15 Points)
- 5- **Create** a function take two integers to swap them, then call it in main function. (20 Points)
- 6- **Without coping the following code on compiler, Fix** the issues in code to make it print the following output, then **write** the fixed code. (10 Points)



```
int main()
{
    int j = 1;
    for (int i = 1; i < 5; i++) {
        for (int j = 1; j < 5; j--)
            if (i == j)
                cout << i << " ";
        cout << j << endl;
    }
}
```

Micro

```
1 1
2 2
3 3
4 4
5 5
```

- 7- **Without coping the following code on compiler,**

Draw the below code :
(15 Points)

```
int main()
{
    int num = 5;
    for (int i = 1; i <= num; i++) {
        for (int j = 1; j <= 5; j++)
            if (j == 1 || j == i || i == num) {
                cout << "x";
            }
            else {
                cout << " ";
            }
        cout << endl;
    }
}
```