# Introduction to Computers and Lab Practice Lecture 02

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# Notice

Open KakaoTalk program will not be used

Lab class will be conducted in c++ language

Supplementary Lectures (printf / scanf / cin / cout)

# printf vs cout

## printf

```
1    #include<stdio.h>
2
3    int main()
4    {
5        int num = 5;
6        printf("%d",num);
7    }
```

#include <stdio.h> is needed

Cannot print variable without using format

## cout

```
1    #include<iostream>
2
3    using namespace std;
4    int main()
5    {
6        int num = 5;
7        cout<<num;
8    }
```

#include <iostream> is needed.
Using namespace std; is needed

Use '<<' pointing towards the 'cout'

Can print variable without using format

## scanf vs cin

### scanf

```c
#include<stdio.h>

int main()
{
    int num;
    scanf_s("%d", &num);


    printf("%d",num);
}
```

Cannot save value without using format

### cin

```cpp
#include<iostream>

using namespace std;

int main()
{
    int num;
    cin >>num;

    cout << num;
}
```

Use '>>' pointing towards the variable

Can save value without using format

## Summary

| printf / scanf | cout / cin |
| --- | --- |
| #include <stdio.h> is needed | #include <iostream> is needed.<br>Using namespace std; is needed |
| Cannot save or print value without using format | Can save or value without using format |