## Demand topics by students - B2 batch

1. **Pointers to objects** [ usage of -> (arrow) operator ]

```
Let's Code:
#include<iostream>
using namespace std;
class A
{
         private:
                  int a, b;
         public:
                  void add(int x, int y)
                           a=x;
                           b=y;
                  void disp()
                  cout<<"Pointer to object is done"<<endl;</pre>
                  cout<<"Addition is "<<a+b<<endl;</pre>
};
int main()
         A obj1;
/* obj1.add(5,4);
         obj1.disp(); */
        A *ptr1;
        ptr1=&obj1;
ptr1=>add(4,5);
ptr1=>disp();
}
Output:
Pointer to object is done
```

Addition is 9

## 2. this pointer

In **C++** programming, this is a **keyword** that refers to the current instance of the class. There can be 3 main usage of this **keyword** in C++.

...

## C++ this Pointer

- It can be used to pass current object as a parameter to another method.
- It can be used to refer current class instance variable.
- It can be used to declare indexers.

## Usage 01:

```
#include<iostream>
using namespace std;
class test
          int a, b;
          public:
          void disp()
                     a=10;
                     b=20;
          cout<<"Current object address"<<this<<endl;</pre>
          cout<<"a value is "<<this->a<<endl;
cout<<"b value is "<<this->b<<endl;</pre>
};
int main()
test obj;
obj.disp();
return 0;
}
Output:
Current object address0x7ffee3cfabf0
a value is 10 b value is 20
```

```
Usage 2:
#include<iostream>
using namespace std;
class test
{
         public:
         int a, b;
         public:
         void disp(int a, int b)
                               // a=a; // (*this).a=a;
// b=b; // (*this).b=b;
                  this->a=a;
                  this->b=b;
         cout<<"a value is "<<this->a<<endl;</pre>
         cout<<"b value is "<<this->b<<endl;</pre>
};
int main()
test obj;
obj.disp(10,20);
return 0;
Output:
a value is 10
b value is 20
```