

Agnim Gupta

2028083

A23

CSSE

## Question 1

```
//Q1) WAP to show the implementation of this pointer

#include <iostream>
using namespace std;
class Employee {
public:
    int duplicate; //data member (also instance variable)
    Employee(int duplicate)
    {
        this->duplicate = duplicate;
    }
    void display()
    {
        cout<<duplicate<<" "<<endl;
    }
};
int main(void) {
    Employee e1 =Employee(101); //creating an object of Employee
    Employee e2=Employee(102); //creating an object of Employee
    e1.display();
    e2.display();
    return 0;
}
```

## Output

```
PS C:\Users\KIIT\Documents\coding> cd "c:\Users\KIIT\Documents\coding\3rd semester\OOP lab\class 8\" ; if ($?) { g++ class8_q1.cpp -o class8_q1 } ; if ($?) { .\class8_q1 }
101
102
PS C:\Users\KIIT\Documents\coding\3rd semester\OOP lab\class 8> █
```

## Question 2:

//Q1) WAP to show the implementation of virtual base class

```
#include <iostream>
using namespace std;

class A {
public:
    string n;
    A()
    {
        n = "Virtual based class successful";
    }
};

class B : public virtual A {
};

class C : public virtual A {
};

class D : public B, public C {
};

int main()
{
    D obj; // object creation of class d
    cout << "a = " << obj.n << endl;

    return 0;
}
```

## Output

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\KIIT\Documents\coding> cd "c:\Users\KIIT\Documents\coding\3rd semester\OOP lab\class 8\" ; if ($?) { g++ class8_q2.cpp -o class8_q2 } ; if ($?) { .\class8_q2 }
a = Virtual based class successful
PS C:\Users\KIIT\Documents\coding\3rd semester\OOP lab\class 8> █
```