

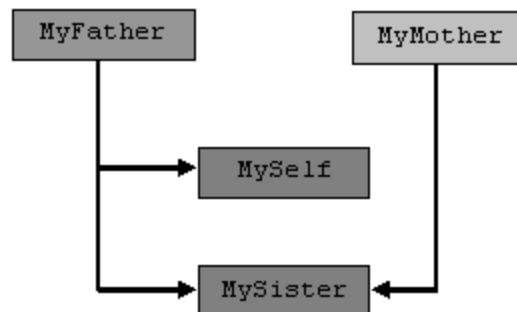
Institute of Computer Technology
B. Tech. Computer Science and Engineering

Sub: ESFP – II

Practical -7

AIM: To learn about Inheritance in C++.

1. Implement a class government having two subclasses finance and defense. Now make a child Minister which should have finance and defense as parent class. Classes Government must possess a function Budget which display the message you will get budget less than 4000 crores. Make the object of Minister and access the function budget.
2. Create two classes, A and B, with default constructors that announce themselves. Inherit a new class called C from A, and create a member object of B in C, but do not create a constructor for C. Create an object of class C and observe the results.
3. Implement a following scenario using C++ Inheritance: (Use Name & Eye color Data member to print the results)



Post Practical Work

1. Write a Program in C++ to illustrate the order of execution of constructors and destructors in inheritance.
2.

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

```

{
    char* name;
    int Number;
public:
    void getInfo()
    {
        cout << "Info::getInfo";
        getName();
    }

    void getName()
    {
        cout << "Info::getName";
    }
};

class Name: public Info
{
    char *name;
public:
    void getName()
    {
        cout << "Name::getName";
    }
};

void main()
{
    Info *P;
    Name n;
    P = n;
    p->getInfo();
}

```

3.Find the output:

```

#include<iostream>
using namespace std;

```

```

class base {
    int arr[10];
};

```

```

class b1: public base { };

```

```

class b2: public base { };

```

```
class derived: public b1, public b2 {};
```

```
int main(void)
{
    cout << sizeof(derived);
    return 0;
}
```

A.40

B.80

C. 0

D. 4