## Sukuna Multiple Campus

Name: DayaShankar Das

Symbol no: 76214008

Subject: OOP with C++

Submitted To: Uma Dungel

```
//Destructor
#include <iostream>
#include <conio.h>
using namespace std;
class Information{
      public:
             Information(){
                   cout<<"Constructor is called ";
             ~Information(){
                   cout<<endl<<"Destrutor is called ";</pre>
             }
};
int main(){
      Information info;
      return 0;
 ■ E:\2. Second semester\Practical Exam\C++ Practical\7.Destructor.exe
Constructor is called
 Destrutor is called
```

```
//Unary Operator overloading
#include <iostream>
#include <conio.h>
using namespace std;
class Counter{
      int count;
      public:
            Counter(){
                   count=0;
            void operator++(){
                   ++count;
            }
            void getData(){
                   cout<<"Number is: "<<count<<endl;</pre>
            }
};
int main(){
      Counter count;
      count.getData();
      ++count;
      ++count;
      count.getData();
}
```

```
■ E:\2. Second semester\Practical Exam\C++ Practical\5.UnaryOPeratorOverloading.exe
```

Number is: 0 Number is: 2

```
//Encapsulation
#include <iostream>
#include <conio.h>
using namespace std;
class Encaps
 private:
 int a,b;
 public:
 void set_data()
   cout<<"Enter two numbers";
   cin>>a>>b;
  void getdata()
  cout<<"Addition of two number is "<<a+b;</pre>
};
int main()
  Encaps E1;
  E1.set_data();
  E1.getdata();
  return 0;
}
 E:\2. Second semester\C ++ programs\Object Oriented Programming in C++'
```

Enter two numbers 6

Addition of two number is 11

```
// Default Constructor
#include <iostream>
#include <conio.h>
using namespace std;
class DefaultConstructor{
      public:
      DefaultConstructor(){
            cout<<"This is an example of default constructor\n";</pre>
      }
};
int main()
      DefaultConstructor d1;
      return 0;
}
■ E:\2. Second semester\C ++ programs\Object Oriented Programming in C++\Constructo
This is an example of default constructor
```

```
//template class
#include <iostream>
#include <conio.h>
using namespace std;
template <class temp>
class Calculator
 temp n1,n2;
 public:
 Calculator(temp n1,temp n2)
   this->n1=n1;//this->n1 is above private access specifier member
   this->n2=n2;
 }
 void display()
   cout<<"NUmber are "<<n1<<" "<<n2;
   cout<<endl<<"Addition "<<add()<<endl;</pre>
 }
  temp add()
    return n1+n2;
  }
};
int main()
  Calculator <int> cal(5,10);
  Calculator <float> f(5.5,10);
  cal.display();
  f.display();
  return 0;
```

}

■ E:\2. Second semester\C ++ programs\Templete class\Templete\_Class.exe

NUmber are 5 10 Addition 15 NUmber are 5.5 10 Addition 15.5

```
//Single level inheritance
#include <iostream>
#include <conio.h>
using namespace std;
class Base_class{
      protected:
             int age;
};
class Child_class: public Base_class{
      public:
            void myage()
                   age=18;
                   cout<<"your age is "<<age;</pre>
            }
};
int main(){
      Child_class ch;
      ch.myage();
      return 0;
}
 ■ E:\2. Second semester\C ++ programs\Object Oriented Programming in C++\Inhe
your age is 18
```

```
//Multiplication of two numbers
#include <iostream>
#include <conio.h>
using namespace std;
class Multiplication{
      int a,b,mul;
      public:
             void setData(){
                   cout<<"Enter two numbers";
                   cin>>a>>b;
             void getData(){
                   mul=a*b;
                   cout<<"Multiplication of "<<a<<" and "<<b<<" is "<<mul;
             }
};
int main(){
      Multiplication multiplication;
      multiplication.setData();
      multiplication.getData();
}
 E:\2. Second semester\Practical Exam\C++ Practical\4.MultiplicationOftwoNumbers.exe
```

```
Enter two numbers 5
Multiplication of 5 and 4 is 20
```