Experiment No. 3 Date:-

Aim: Implement the concept of class & objects.

PART A] Write a program in C++ to accept & print the name, age & height of the student & print them.

PART B] Write a C++ program to accept & print details of the employee.

Aim:- Implement the concept of class & objects.

PART A] Write a program in C++ to accept & print the name, age & height of the student and print them.

PARTB] Write a C++ program to accept & print details of the employee.

Theory:- The classes & objects are the basic building block that leads to Object-oriented programming in C++. In the C++ objects & classes play an crucial role. A Class is a user-defined data type that has data members and member functions. Data members are the data variables and the member functions used to manipulate these vars together, these data members & member functions define the properties and behaviour of object in a Class.

→ Access Specifier : In C++ classes, we can control the access to the members of the class using access specifier, also known as access specifier. In C++ there are 3 types of access specifier :

1] Public : Members can be accessed from out of class.

2] Private: Members can be accessed only in the class.

3] Protected: Members can be accessed in & next imm class only.

Syntax :-

```
// Class :-
class ThisClass {
    public :
    int var; // data member
    void print(){ // member method.
        cout << "Hello World";
    }
};

// Object :-
ClassName ObjectName;
```

Code :- A

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

class student {
    private :
        string name;
        int age ;
        float height;
    public :
        void getDetails(){
        cout << "Enter the name, Age and
                height" << endl;
        cin >> name >> age >> height ;
}
```

```
void putDetails () {
    cout << "Your name is :" << name << "." << endl;
    cout << "Your age is : " << age << "Years" , << endl;
    cout << " Your height is : << height << "feet." << endl;
}
};
  int main () {
    Student S;
    S. getDetails ();
    S. putDetails ();
    return 0;
}
```

Output A:- Enter the Name, Age & Height

Rushi

18

5.6

Your name is : Rushi

Your age is : 18 Years.

Your height is : 5.6 feet.

Code B:-

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

class Employee {
        private :
                string name;
                int UID;
                long int Salary;
        public :
                void getDetails (){
                cout<<"Enter the Name, UID &
                 Salary of the employee" << endl;
                cin >> name >> UID >> Salary ;
                }
void putDetails (){
        cout<<"Your name is :" << name << "." <<endl;
        cout<<"Your phone no. is :"<< UID <<endl;
        cout<<"Your Salary is :" << Salary <<"Rupees"
                                        <<endl;
}
};
int main (){
    Employee E ;
    E.getDetails ();
    E.ge
    E.putDetails ();
}
```

Conclusion: The practical has been successfully executed & performed.

Output B:-

```
Enter the name, UID & Salary of employee :
Rushi
23016060
Your name is : Rushi
Your UID Number is : 23016060.
Your Salary is : 2000000 Rupees.
```

Conclusion :- The practical has been successfully executed & performed.