

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.

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**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

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.get
    E.putDetails ();
}

```

Conclusion: The practical has been successfully executed & performed.



Output B:- Enter the name , UID & Salary of employee :

Rushi

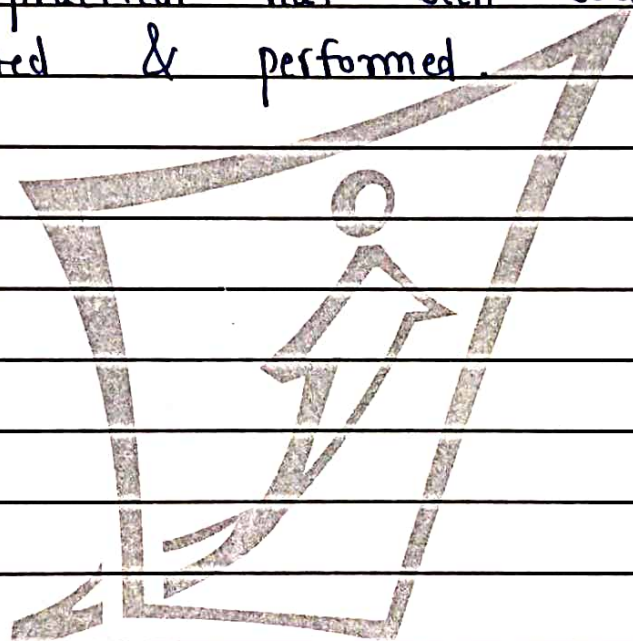
23016060

Your name is : Rushi

Your ~~Phone~~<sup>UID</sup> Number is : 23016060 .

Your Salary is : 2000000 Rupees.

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



ARISE & SHINE