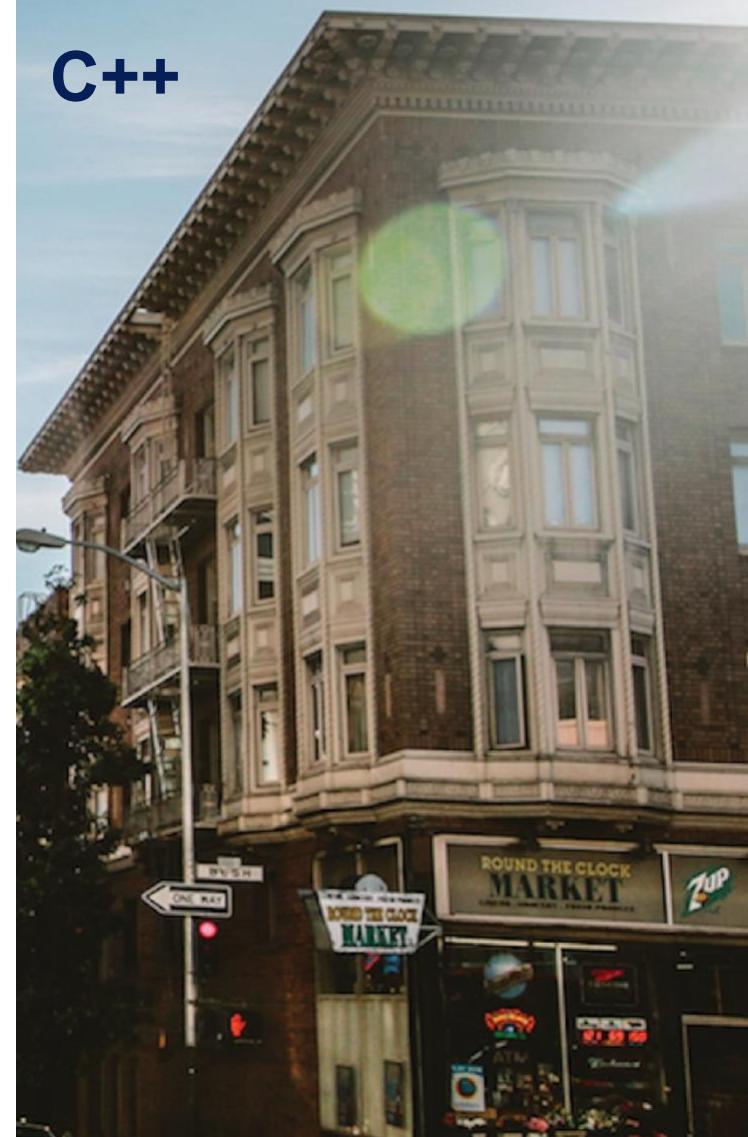# OOPS PROJECT

C++

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C++ program to demonstrate example of hierarchical inheritance to get square and cube of a number.

CSE 2ND SEM

ACKNOWLEDGMENT

 I Suman Saurabh Student of Chandigarh College of Engineering and Technology, am Extremely Grateful to each and every individual who has contributed in Successful Completion of my Project. I Express my Gratitude towards Chandigarh College of Engineering and Technology for their Guidance and Constant Super Vision. As well as for providing the necessary information and Support Regarding the Completion of Project. Thank You

SYNOPSIS

 This Project is a minor Project and is made, On The Bases of Practical Concepts of C++. This Project has made our Basic Practical Concepts of C++ Strong.

```cpp
#include
using namespace std;
class Number
{
private:
int num;
public:
void getNumber(void)
 {
 cout << "Enter an integer number: ";
 cin >> num;
}
 //to return num
 int returnNumber(void)
 { return num; }
//Base Class 1, to calculate square of a number
 class Square:public Number
{
 public: int getSquare(void)
 {
 int num,sqr; num=returnNumber();
 //get number from class Number
 sqr=num*num;
 return sqr; }
 };
//Base Class 2, to calculate cube of a number
 class Cube:public Number
{
 private:

public:
```

```cpp
int getCube(void)
{
int num,cube; num=returnNumber();
//get number from class Number
cube=num*num*num;
return cube;
}
};

int main()
{
Square objS;
Cube objC;
int sqr,cube;
objS.getNumber();
sqr =objS.getSquare();
cout << "Square of "<< objS.returnNumber() << " is: " << sqr << endl;
objC.getNumber();
cube=objC.getCube();
cout << "Cube of "<< objS.returnNumber() << " is: " << cube << endl;
return 0;
}
```

Enter an integer number:5
Square of 5 is 25:
Enter an integer number:4
Cube of 4 is 64

THANK YOU