**VARUN KUMAR**

**2K19/IT/140**

**OOP LAB – 10**

#include<iostream>

using namespace std;

class person{

int height;

int weight;

public:

person(){

cout<<"person class constructor called!!!! \n\n";

height=0;

weight=0;

}

};

class student : protected person{

protected:

string name;

public:

student(string n){

cout<<"student class constructor called!!!!\n\n";

name = n;

}

};

class collge\_student : public student{

int roll\_no;

public:

collge\_student(string n,int r) : student(n){

cout<<"collge\_student class constructor called!!!\n\n";

roll\_no=r;

}

};

class employee : public person{

protected:

string name;

int emp\_id;

public:

employee(string n , int e){

cout<<"employee class constructor called!!! \n\n";

name = n;

emp\_id=e;

}

};

class college\_employee : public employee{

int salary;

public:

college\_employee(string n,int e,int s) : employee(n,e){

cout<<"college\_employee class constructor called!!! \n\n";

salary =s;

}

friend int bonus(int salary);

};

class college\_people: public collge\_student , protected college\_employee{

string college\_name;

public:

college\_people(string na,int r,string n,int e,int s ,string c): collge\_student(na,r),college\_employee(n,e,s) {

cout<<"college\_people class constructor called!!! \n\n";

college\_name=c;

}

};

int bonus(int salary){

int b=(salary\*2)/100;

return b;

}

int main(){

college\_people C("varun",124,"piyush",450,50000,"DTU");

cout<<"---------------------------------------------------\n\n";

college\_employee E("rahul",694,60000);

cout<<"Bonus is : ---- \n "<<bonus(60000);

return 0;

}

