DATE- PAGE-

**Write aprogram to implement multilevel inheritance**

#include <iostream>

using namespace std;

class student {

protected:

int roll\_no;

char name[20];

char course[10];

public:

void get\_data()

{

cout << "enter the roll number:";

cin >> roll\_no;

cout << "enter name: ";

cin.ignore();

cin.getline(name, 20);

cout << "enter course:";

cin.getline(course, 10);

}

int get\_no()

{

return (roll\_no);

}

char\* get\_name()

{

return (name);

}

char\* get\_course()

{

return (course);

}

};

class marks : public student {

protected:

int marks[3];

public:

void get\_marks()

{

cout << "\n enter the marks in 3 subjects:";

for (int i = 0; i < 3; i++)

cin >> marks[i];

}

int total()

{

return (marks[0] + marks[1] + marks[2]);

}

};

class result : public marks {

public:

void display()

{

cout << "\n student roll no is:" << get\_no();

cout << "\n student name is:" << get\_name();

cout << "\n course is:" << get\_course();

cout << "\n total marks:" << total();

}

};

int main()

{

result R;

R.get\_data();

R.get\_marks();

R.display();

return (0);

}

**Output**

enter the roll number:1

enter name:anindita roy

enter course:BCA

enter the marks in 3 subjects:30 60 37

student roll no is:2

student name is:amrita pal

course is:CS

total marks:127

Teacher’s signature-