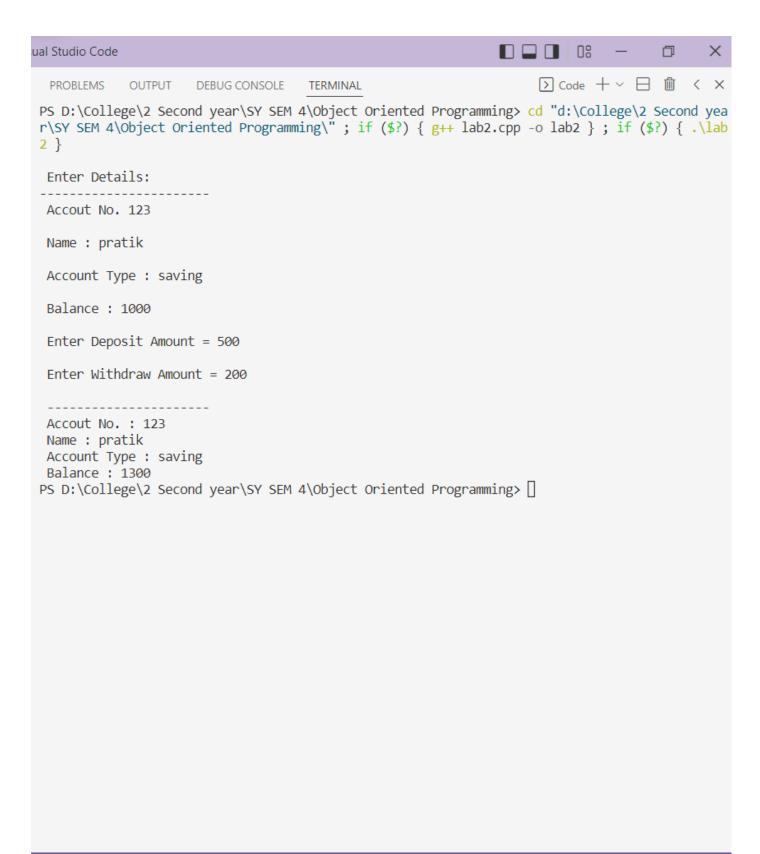
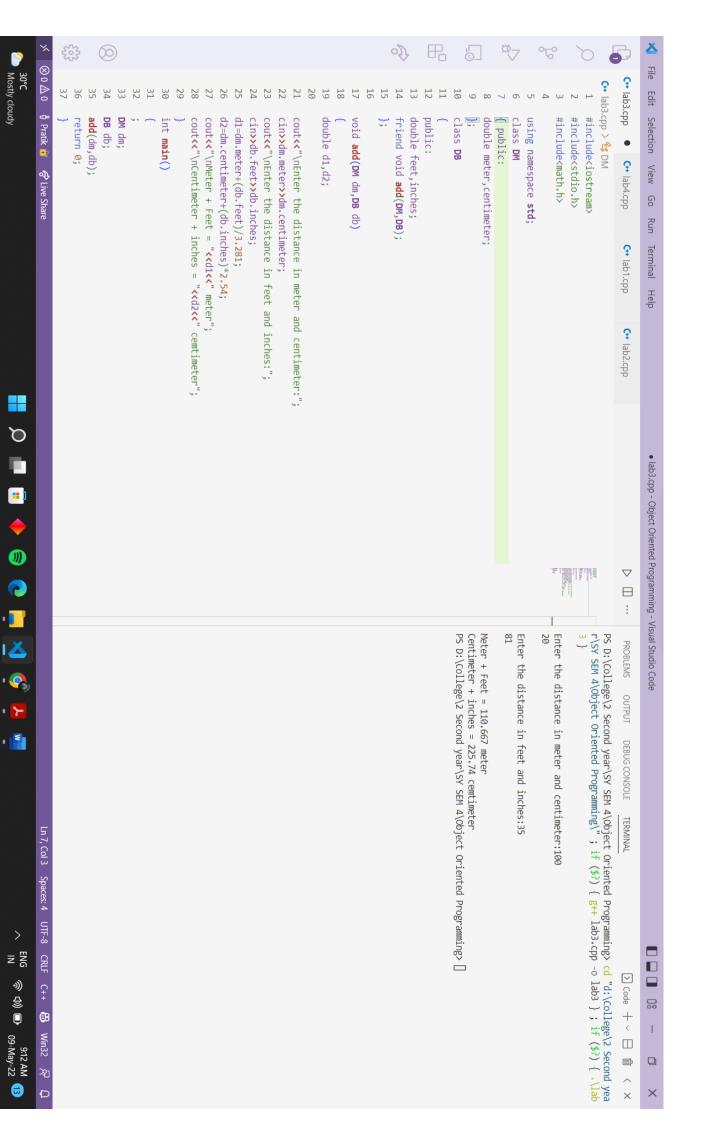


```
#include<iostream>
#include<stdio.h>
#include<string.h>
using namespace std;
class bank
        int account_no;
        char num[100], acctype[100];
        float bal;
   public:
        bank(int acc_no, char *name, char *acc_type, float
balance) //Parameterized Constructor
                account no=acc no;
                strcpy(num, name);
                strcpy(acctype, acc_type);
                bal=balance;
        }
        void deposit();
        void withdraw();
        void display();
};
void bank::deposit() //depositing an amount
        int deamt1;
        cout<<"\n Enter Deposit Amount = ";</pre>
        cin>>deamt1;
        bal+=deamt1;
}
void bank::withdraw() //withdrawing an amount
{
        int withdrawamt;
        cout<<"\n Enter Withdraw Amount = ";</pre>
        cin>>withdrawamt;
        if(withdrawamt>bal){
                cout<<"\n Cannot Withdraw Amount";</pre>
        bal-=withdrawamt;
void bank::display() //displaying the details
        cout<<"\n -----";
        cout<<"\n Accout No. : "<<account_no;</pre>
        cout<<"\n Name : "<<num;</pre>
        cout<<"\n Account Type : "<<acctype;</pre>
        cout<<"\n Balance : "<<bal;</pre>
}
int main()
        int acc_no;
```

```
char name[100], acc_type[100];
float balance;
cout<<"\n Enter Details: \n";</pre>
cout<<"----";
cout<<"\n Accout No. ";</pre>
cin>>acc_no;
cout<<"\n Name : ";</pre>
cin>>name;
cout<<"\n Account Type : ";</pre>
cin>>acc_type;
cout<<"\n Balance : ";</pre>
cin>>balance;
bank b1(acc_no, name, acc_type, balance); //object is created
b1.deposit(); //
b1.withdraw(); // calling member functions
b1.display();
return 0;
```

}





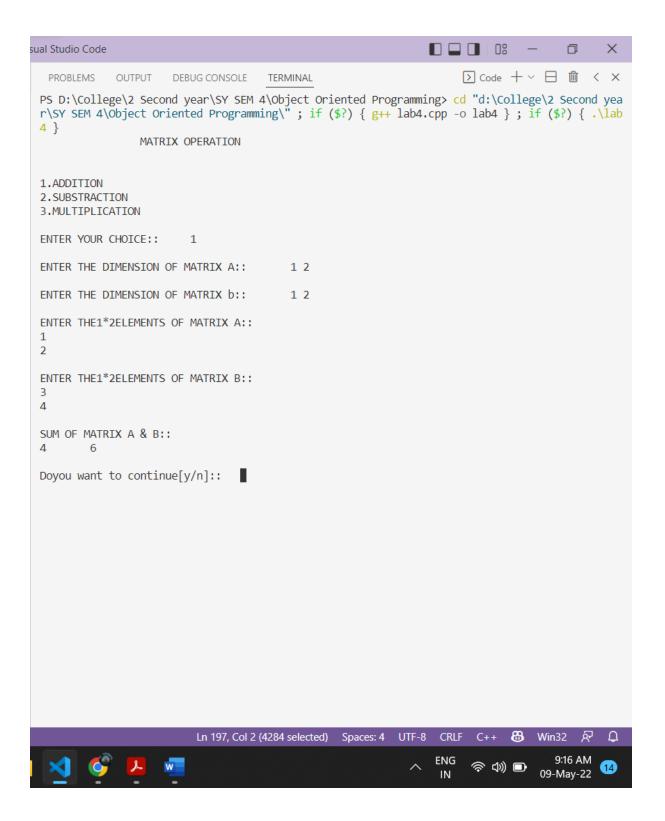
```
#include <iostream>
#include <conio.h>
#include cess.h>
using namespace std;
class mat
{
    int a[20][20], b[20][20],c[20][20];
    int i, j, k, p, q, x, y;
public:
    void addition(void);
    void substraction(void);
    void multiplication(void);
};
void mat::addition()
{
    cout << "\nENTER THE DIMENSION OF MATRIX A::\t";</pre>
    cin >> x >> y;
    cout << "\nENTER THE DIMENSION OF MATRIX b::\t";</pre>
    cin \gg p \gg q;
    if ((x == p) && (y == q))
    {
        cout << "\nENTER THE" << x << "*" << y << "ELEMENTS OF MATRIX A::\n";</pre>
        for (i = 0; i < x; i++)
            for (j = 0; j < y; j++)
                cin >> a[i][j];
        }
        cout << "\nENTER THE" << p << "*" << q << "ELEMENTS OF MATRIX B::\n";</pre>
        for (i = 0; i < p; i++)
            for (j = 0; j < q; j++)
               cin >> b[i][j];
        }
        cout << "\nSUM OF MATRIX A & B::\n";</pre>
        for (i = 0; i < x; i++)
            for (j = 0; j < y; j++)
                 c[i][j] = a[i][j] + b[i][j];
        }
        for (i = 0; i < x; i++)
            for (j = 0; j < y; j++)
                cout << c[i][j] << "\t";</pre>
            cout << "\n";</pre>
        }
```

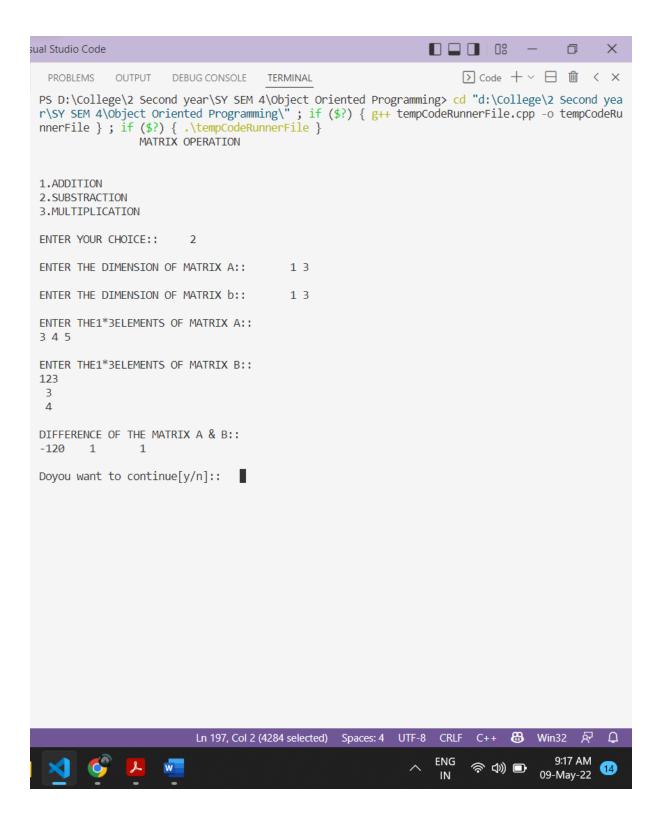
```
}
    else
        cout << "\nADDITION IS NOT POSSIBLE::";</pre>
}
void mat::substraction()
    cout << "\nENTER THE DIMENSION OF MATRIX A::\t";</pre>
    cin >> x >> y;
    cout << "\nENTER THE DIMENSION OF MATRIX b::\t";</pre>
    cin \gg p \gg q;
    if ((x == p) \&\& (y == q))
        cout << "\nENTER THE" << x << "*" << y << "ELEMENTS OF MATRIX A::\n";</pre>
        for (i = 0; i < x; i++)
             for (j = 0; j < y; j++)
                 cin >> a[i][j];
        }
        cout << "\nENTER THE" << p << "*" << q << "ELEMENTS OF MATRIX B::\n";</pre>
        for (i = 0; i < p; i++)
            for (j = 0; j < q; j++)
                 cin >> b[i][j];
        }
        cout << "\nDIFFERENCE OF THE MATRIX A & B::\n";</pre>
        for (i = 0; i < x; i++)
             for (j = 0; j < y; j++)
                 c[i][j] = a[i][j] - b[i][j];
        }
        for (i = 0; i < x; i++)
             for (j = 0; j < y; j++)
                 cout << c[i][j] << "\t";</pre>
             cout << "\n";</pre>
        }
    }
    else
        cout << "\nSUBSTRACTION IS NOT POSSIBLE::";</pre>
}
void mat::multiplication()
{
    cout << "\nENTER THE DIMENSION OF MATRIX A::\t";</pre>
    cin >> x >> y;
```

```
cin >> p >> q;
    if (y == q)
        cout << "\nENTER THE" << x << "*" << y << "ELEMENTS OF MATRIX A::\n";</pre>
        for (i = 0; i < x; i++)
        {
            for (j = 0; j < y; j++)
                 cin >> a[i][j];
        }
        cout << "\nENTER THE" << p << "*" << q << "ELEMENTS OF MATRIX B::\n";</pre>
        for (i = 0; i < p; i++)
        {
            for (j = 0; j < q; j++)
                cin >> b[i][j];
        }
        cout << "\nPROCUCT OF THE MATRIX A & B::\n";</pre>
        for (i = 0; i < x; i++)
        {
            for (j = 0; j < q; j++)
                 c[i][j] = 0;
                 for (k = 0; k < y; k++)
                     c[i][j] = a[i][k] * b[k][i] + c[i][j];
             }
        for (i = 0; i < x; i++)
        {
            for (j = 0; j < q; j++)
                 cout << c[i][j] << "\t";</pre>
            cout << "\n";</pre>
    }
    else
        cout << "\nMULTIPLICATION IS NOT POSSIBLE::";</pre>
}
int main()
    int c;
    char ch;
    mat M;
    do
```

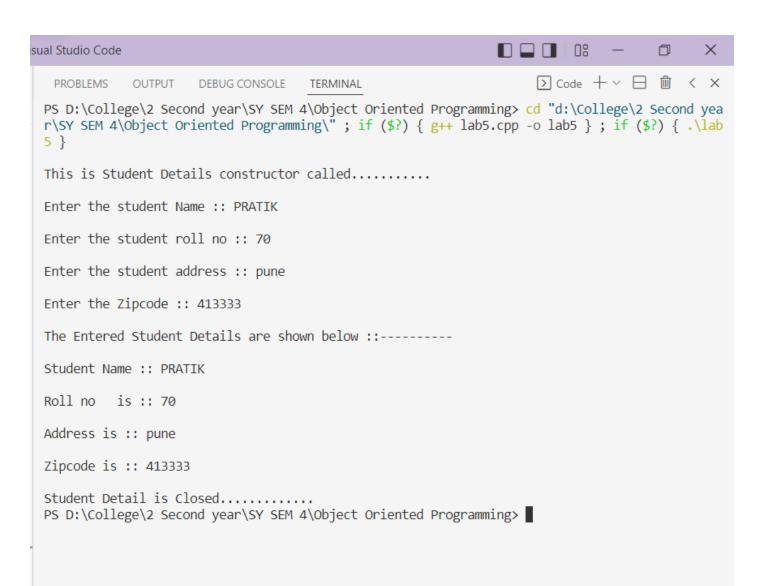
cout << "\nENTER THE DIMENSION OF MATRIX b::\t";</pre>

```
{
        cout << "\t\tMATRIX OPERATION\n\n";</pre>
        cout << "\n1.ADDITION\n2.SUBSTRACTION\n3.MULTIPLICATION\n";</pre>
        cout << "\nENTER YOUR CHOICE::\t";</pre>
        cin >> c;
        switch (c)
        {
        case 1:
            M.addition();
                 break;
        case 2:
            M.substraction();
                 break;
        case 3:
            M.multiplication();
                 break;
             default:
            cout << "Wrong Choice";</pre>
        }
        cout << "\nDoyou want to continue[y/n]::\t";</pre>
        cin >> ch;
    }
    while (ch == 'y', ch == 'Y');
    return 0;
}
```





```
#include <iostream>
using namespace std;
class stu
private:
    char name[20], add[20];
    int roll, zip;
public:
    stu(); // Constructor
    ~stu(); // Destructor
    void read();
    void disp();
};
stu ::stu()
{
    cout << "\nThis is Student Details constructor called....." << endl;</pre>
void stu ::read()
    cout << "\nEnter the student Name :: ";</pre>
    cin >> name;
    cout << "\nEnter the student roll no :: ";</pre>
    cin >> roll;
    cout << "\nEnter the student address :: ";</pre>
    cin >> add;
    cout << "\nEnter the Zipcode :: ";</pre>
    cin >> zip;
void stu ::disp()
    cout << "\nThe Entered Student Details are shown below ::----- \n";</pre>
    cout << "\nStudent Name :: " << name << endl;</pre>
    cout << "\nRoll no is :: " << roll << endl;</pre>
    cout << "\nAddress is :: " << add << endl;</pre>
    cout << "\nZipcode is :: " << zip;</pre>
}
stu ::~stu()
    cout << "\n\nStudent Detail is Closed.....\n";</pre>
}
int main()
{
    stu s;
    s.read();
    s.disp();
    return 0;
}
```



```
#include <iostream>
#include <conio.h>
#include <string.h>
using namespace std;
class person
protected:
    char name[20];
    int code;
public:
    void get_per(int c, char *s)
    {
        code = c;
        strcpy(name, s);
    }
    void put_per()
    {
        cout << "\nCode : " << code;</pre>
        cout << "\nName : " << name;</pre>
};
class account : public virtual person
protected:
    float pay;
public:
    void get_pay(float p)
    {
        pay = p;
    }
    void put_pay()
        cout << "\nPay amount : " << pay;</pre>
    }
};
class admin : public virtual person
protected:
    int exp;
public:
    void get_exp(int e)
    {
        exp = e;
    }
    void put_exp()
    {
        cout << "\nExperiance : " << exp;</pre>
```

```
};
    class master : public account, public admin
    {
        // private:
        // float pay;
        // int code,exp;
        // char name;
    public:
        void display()
        {
            put_per();
            put_pay();
            put_exp();
    };
    int main()
    {
        master p1;
        p1.get_per(111, "Piyush");
        p1.get_pay(501.50);
        p1.get_exp(2);
        p1.display();
        return 0;
    }
Code : 111
Name : Piyush
Pay amount : 501.5
```

PS D:\College\2 Second year\SY SEM 4\Object Oriented Programming> [

}

Experiance : 2

```
#include <iostream>
#include<string>
using namespace std;
class media
    protected:
    string title;
    float price;
    public:
    media()
    {
        title=" ";
        price=0.0;
        media(string t,float P)
            title=t;
            price=P;
    };
    class book : public media
        int P_count;
        public:
        book()
        {
             P_count=0;
        book(string t,float P,int pc):media(t,P)
            P_count=pc;
        }
     void display()
     {
          cout<<"title :"<<title<<endl;</pre>
                 cout<<"Price: "<<price<<endl;</pre>
          cout<<"Pagecount :"<<P_count<<endl;</pre>
        }
    };
```

```
class CD : public media
    {
        float time;
        public:
        CD()
        {
             time=0.0;
        CD(string t,float p,float tim):media(t,p)
        {
             time=tim;
        }
     void display()
          cout<<"title :"<<title<<endl;</pre>
                 cout<<"Price: "<<price<<endl;</pre>
          cout<<"time in minutes :"<<time<<endl;</pre>
        }
    };
int main()
    cout<<endl<<"Book information"<<endl;</pre>
    book Bo("programming in java",1000,500);
    Bo.display();
    cout<<endl<<"video information"<<endl;</pre>
    CD cd("programming in c++",100,125);
    cd.display();
    return 0;
        }
```

```
PS D:\College\2 Second year\SY SEM 4\Object Oriented Programming> cd "d:\College\2 Second year\SY SEM 4\Object Oriented Programming\"; if ($?) { g++ lab7.cpp -o lab7 }; if ($?) { .\lab 7 }

Book information
title :programming in java
Price: 1000
Pagecount :500

video information
title :programming in c++
Price: 100
time in minutes :125
PS D:\College\2 Second year\SY SEM 4\Object Oriented Programming> []
```

