*Object:* Write a Menu driven Program which have the following options :  
  
 Select the menu from the List :   
 1. Addition Of Matrix  
 2. Subtraction of Matrix  
 3. Multiplication Of Matrix  
 4. Exit.

*Code:*

**#include<iostream>**

**#include<conio.h>**

**using namespace std;**

**void main()**

**{**

**int choice;**

**start:**

**cout<<"Select the menu from the list"<<endl;**

**cout<<"\n1. Addition of Matrix";**

**cout<<"\n2. Subtraction of Matrix";**

**cout<<"\n3. Multiplication of Matrix";**

**cout<<"\n4. Exit";**

**cout<<"\n\nEnter your Choice: ";**

**cin>>choice;**

**system("cls");**

**switch (choice)**

**{**

**case 1:**

**cout<<"Addition of Matrix"<<endl;**

**int rows, coulomns, first[100][100], second[100][100], add[100][100], loop, loops;**

**cout<<"Enter Number of Rows: ";**

**cin>>rows;**

**cout<<"Enter Number of Columns: ";**

**cin>>coulomns;**

**cout<<endl<<"Enter Elements of 1st Matrix: "<<endl;**

**for(loop=0;loop<rows;++loop)**

**for(loops=0;loops<coulomns;++loops)**

**{**

**cout<<"Enter Element a"<<loop+1<<loops+1<<" : ";**

**cin>>first[loop][loops];**

**}**

**cout<<endl<<"Enter Elements of 2nd Matrix: "<<endl;**

**for(loop=0;loop<rows;++loop)**

**for(loops=0;loops<coulomns;++loops)**

**{**

**cout<<"Enter Element b"<<loop+1<<loops+1<<" : ";**

**cin>>second[loop][loops];**

**}**

**for(loop=0;loop<rows;++loop)**

**for(loops=0;loops<coulomns;++loops)**

**add[loop][loops]=first[loop][loops]+second[loop][loops];**

**cout<<endl<<"Addition of Two Matrix is: "<<endl;**

**for(loop=0;loop<rows;++loop)**

**for(loops=0;loops<coulomns;++loops)**

**{**

**cout<<add[loop][loops]<<" ";**

**if(loops==coulomns-1)**

**cout<<endl;**

**}**

**break;**

**case 2:**

**cout<<"Subtraction of Martix"<<endl;**

**int row, coulomn, f[100][100], s[100][100], sub[100][100], for\_loop, for\_loops;**

**cout<<"Enter Number of Rows: ";**

**cin>>row;**

**cout<<"Enter Number of Columns: ";**

**cin>>coulomn;**

**cout<<endl<<"Enter Elements of 1st Matrix: "<<endl;**

**for(for\_loop=0;for\_loop<row;++for\_loop)**

**for(for\_loops=0;for\_loops<coulomn;++for\_loops)**

**{**

**cout<<"Enter Element a"<<for\_loop+1<<for\_loops+1<<" : ";**

**cin>>f[for\_loop][for\_loops];**

**}**

**cout<<endl<<"Enter Elements of 2nd Matrix: "<<endl;**

**for(for\_loop=0;for\_loop<row;++for\_loop)**

**for(for\_loops=0;for\_loops<coulomn;++for\_loops)**

**{**

**cout<<"Enter Element b"<<for\_loop+1<<for\_loops+1<<" : ";**

**cin>>s[for\_loop][for\_loops];**

**}**

**for(for\_loop=0;for\_loop<row;++for\_loop)**

**for(for\_loops=0;for\_loops<coulomn;++for\_loops)**

**sub[for\_loop][for\_loops]=f[for\_loop][for\_loops]-s[for\_loop][for\_loops];**

**cout<<endl<<"Subtraction of Two Matrix is: "<<endl;**

**for(for\_loop=0;for\_loop<row;++for\_loop)**

**for(for\_loops=0;for\_loops<coulomn;++for\_loops)**

**{**

**cout<<sub[for\_loop][for\_loops]<<" ";**

**if(for\_loops==coulomn-1)**

**cout<<endl;**

**}**

**break;**

**case 3:**

**cout<<"Multiplication of Matrix"<<endl;**

**int r, c, a[100][100], b[100][100], product[100][100], l, for\_l;**

**cout<<"Enter Number of Rows: ";**

**cin>>r;**

**cout<<"Enter Number of Columns: ";**

**cin>>c;**

**cout<<endl<<"Enter Elements of 1st Matrix: "<<endl;**

**for(l=0;l<r;++l)**

**for(for\_l=0;for\_l<c;++for\_l)**

**{**

**cout<<"Enter Element a"<<l+1<<for\_l+1<<" : ";**

**cin>>a[l][for\_l];**

**}**

**cout<<endl<<"Enter Elements of 2nd Matrix: "<<endl;**

**for(l=0;l<r;++l)**

**for(for\_l=0;for\_l<c;++for\_l)**

**{**

**cout<<"Enter Element b"<<l+1<<for\_l+1<<" : ";**

**cin>>b[l][for\_l];**

**}**

**for(l=0;l<r;++l)**

**for(for\_l=0;for\_l<c;++for\_l)**

**product[l][for\_l]=a[l][for\_l]\*b[l][for\_l];**

**cout<<endl<<"Multiplication of Two Matrix is: "<<endl;**

**for(l=0;l<r;++l)**

**for(for\_l=0;for\_l<c;++for\_l)**

**{**

**cout<<product[l][for\_l]<<" ";**

**if(for\_l==c-1)**

**cout<<endl;**

**}**

**break;**

**case 4:**

**exit(0);**

**break;**

**default:**

**cout<<"\nInvalid Selection"<<endl<<endl<<endl;**

**}**

**goto start;**

**getch();**

**}**

*Output:*







