```
Assingment no 6-
#include<iostream>
using namespace std;
class ADT{
int x;
};
int main()
{
//fill your code
int msg;
int m, n;
cout<<"enter the no of rows and column"<<endl;
cin >> m >> n;
try{
 if(m<=2 | | n<=2){
int i, j;
int mat1[m][n], mat2[m][n], mat3[m][n], mat4[m][n];
//mat5[m][n];
cout<<"enter the element of matrix 1"<<endl;
for(i = 0; i < m; i++)
for(j = 0; j < n; j++)
//cout<<"enter the element of matrix 1"<<endl;
cin >> mat1[i][j];
}
cout<<"enter the element of matrix 1"<<endl;
for(i = 0; i < n; i++)
for(j = 0; j < n; j++)
//cout<<"enter the element of matrix 1"<<endl;
```

```
cin >> mat2[i][j];
}
cout<<"addition of two matrix"<<endl;
for(i = 0; i < m; i++)
{
for(j = 0; j < n; j++)
{
mat3[i][j] = mat1[i][j]+ mat2[i][j];
}
}
cout<<"substraction of two matrix"<<endl;</pre>
for(i = 0; i < m; i++)
{
for(j = 0; j < n; j++)
mat4[i][j] = mat1[i][j]- mat2[i][j];
}
}
/*for(i = 0; i < m; i++)
for(j = 0; j < n; j++)
mat5[i][j] = mat1[i][j]* mat2[i][j];
}
```

```
for(i = 0; i < m; i++)
{
for(j = 0; j < n; j++)
cout << mat3[i][j] << " ";
cout << endl;
}
for(i = 0; i < m; i++)
for(j = 0; j < n; j++)
cout << mat4[i][j] << " ";
cout << endl;
}
 }
else{
throw msg;
}
}
catch(int msg){
cout<<"exception occured";
}
return 0;
}
```

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    ■ FY20H842Sakshi / matrix addition  

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59
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63 for(i = 0; i < m; i++)
64 {
65 for(j = 0; j < n; j++)
66 cout << mata[i][j] << "
70 cout << end];
71 for(j = 0; j < n; j++)
72
73 cout << mata[i][j] << "
74 cout << end];
75 }
76 }
77 else
78 throw msg;
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79
80
11 catch(int msg){
22 cout << "exception occured"
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86 return 0;
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                                                   for(i = 0; j < n; j++)
cout << mat3[i][j] << " ";
cout << endl;
}
for(i = 0; i < m; i++)
for(i = 0; i < m; i++)</pre>
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   cout << mat4[i][j] << " ";
cout << end1;
}
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                                                                                                                                                                  #include <iostream>
using namespace std;
class ADT{
  int x;
};
int main()
int m, n, p, q, c, d, k, sum = 0;
int msg;
try{
   if(m<=2 || n<=2)
   {
int mat1[10][10], mat2[10][10], mat3[10][10];
cout << "Enter number of rows and columns of matrix1\n";</pre>
cin >> m >> n;
cout << "Enter elements of matrix 1\n";</pre>
for (c = 0; c < m; c++)
```

```
for (d = 0; d < n; d++)
cin >> mat1[c][d];
cout << "\nEnter number of rows and columns of matrix2\n";</pre>
cin >> p >> q;
if (n != p)
cout << "\nThe matrices can't be multiplied with each other.\n";</pre>
else
{
cout << "\nEnter elements of matrix2\n";</pre>
for (c = 0; c < p; c++)
for (d = 0; d < q; d++)
cin >> mat2[c][d];
for (c = 0; c < m; c++) {
for (d = 0; d < q; d++) {
for (k = 0; k < p; k++) {
sum = sum + mat1[c][k]*mat2[k][d];
}
mat3[c][d] = sum;
sum = 0;
}
}
cout << "\nProduct of the matrices:\n";</pre>
for (c = 0; c < m; c++) {
for (d = 0; d < q; d++)
```

```
cout << mat3[c][d] << " ";
cout << endl;
 }
       }
 else{
      throw msg;
catch(int msg){
       cout<<"exception occured"<<endl;
}
return 0;
   ① (1) WhatsApp x | № 000 P 2021-22 A.G. Details x ② matrix multiplication - Replit x ③ Kasto Mazza | Parineeta | Sai ← x | +
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    ■ FY20H842Sakshi / matrix multiplication  

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          cout << "\nProduct of the matrices:\n";</pre>
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