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	Assignment No: 6 Date
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Advantages of using exception handaling : 20 comproses: (1) exception handalfug can control roun time economic that occur in the progresam It an avoid opnormal termination of the progression also shows the helaviors of the progression It can seperate the entrop handling code and normal code by using tray-catch block. coding cohich ensures Ky It developes a powerful that exceptions on be provented. Exception Specification Exception specification are a c++ language feature the programmers intent about the executation types that can pe probodated ph function. You can tapectly that a function or may not exit by an exception by using an exception specification. The complien can inferention to optimize mils to the function if an unemperted to torminate the program exception exapps the function Multiple c++ exception chases In c++ standard exceptions are defined in (exception) class that up can use inside our All the exception classes in at a good derived from std :: exception class.

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conclusion:			
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## CODE:

```
#include <iostream>
#include <iomanip>
using namespace std;
int main()
    int i = 0, n, j;
xyz:
    cout
        << "note: the size should be a positive interger and less than 3." <<</pre>
endl
        << "enter the size of matrix:";</pre>
    cin >> n;
    try
        if (n >= 4 || n <= 0)
            throw n;
    catch (int p)
        if (p >= 4)
            cout << "\n\t\t !!!exception occurred!!!!" << endl</pre>
                  << "\tthe size should not be greater than 3. " << endl
                  << endl;
            goto xyz;
        else
            cout << "\n\t\t !!!exception occurred!!!!" << endl</pre>
                  << "\tthe size should not be zero or less than zero." << endl
                  << endl;
            goto xyz;
    int arr1[n][n], arr2[n][n];
    cout << "enter the elements of matrix 1:" << endl;</pre>
    for (i = 0; i < n; i++)
        for (j = 0; j < n; j++)
            cin >> arr1[i][j];
    cout << "enter the elements of matrix 2:" << endl;</pre>
    for (i = 0; i < n; i++)
```

```
for (j = 0; j < n; j++)
        cin >> arr2[i][j];
int choice, sum[n][n], sub[n][n], mult[n][n];
while (1)
    cout << "enter 1)addition 2)subtraction 3)multiplicatin " << endl;</pre>
    cin >> choice;
    switch (choice)
    case 1:
        cout << "the addition of matrix 1 and matrix 2 is:" << endl;</pre>
        for (i = 0; i < n; i++)
            for (j = 0; j < n; j++)
                 sum[i][j] = arr1[i][j] + arr2[i][j];
                 cout << sum[i][j] << " ";</pre>
            cout << endl;</pre>
        break;
    case 2:
        cout << "the subtraction of matrix 1 and matrix 2 is:" << endl;</pre>
        for (i = 0; i < n; i++)
            for (j = 0; j < n; j++)
                 sub[i][j] = arr1[i][j] - arr2[i][j];
                 cout << sub[i][j] << " ";
            cout << endl;</pre>
        break;
    case 3:
        cout << "the multiplication of matrix 1 and matrix 2 is:" << endl;</pre>
        for (i = 0; i < n; i++)
            for (j = 0; j < n; j++)
                 mult[i][j] = 0;
                 for (int k = 0; k < n; k++)
                     mult[i][j] = mult[i][j] + (arr1[i][k] * arr2[k][j]);
```

## **OUTPUT:**

```
note: the size should be a positive interger and less than 3.
enter the size of matrix:4
                 !!!exception occurred!!!!
        the size should not be greater than 3.
note: the size should be a positive interger and less than 3.
enter the size of matrix:2
enter the elements of matrix 1:
2
4
3
enter the elements of matrix 2:
2
4
1
enter 1)addition 2)subtraction 3)multiplicatin
the multiplication of matrix 1 and matrix 2 is:
4 8
11 22
enter 1)addition 2)subtraction 3)multiplicatin
the addition of matrix 1 and matrix 2 is:
3 6
5 5
enter 1)addition 2)subtraction 3)multiplicatin
wrong choice
enter 1)addition 2)subtraction 3)multiplicatin
PS D:\program\secondyear>
```