

```
1  #include <iostream>
2  using namespace std;
3
4  int main() {
5      try {
6          // Some code that may throw different types of exceptions
7          int num;
8          cout << "Enter a number: ";
9          cin >> num;
10
11         if (num == 0)
12             throw "Division by zero error"; // throwing a const char*
13
14         if (num < 0)
15             throw -1; // throwing an integer
16
17         if (num > 100)
18             throw 1.5; // throwing a double
19     }
20     catch (const char* msg) {
21         cout << "Exception caught: " << msg << endl;
22     }
23     catch (int x) {
24         cout << "Exception caught: Negative number entered" << endl;
25     }
26     catch (double d) {
27         cout << "Exception caught: Number greater than 100 entered" << endl;
28     }
29
30     cout << "End of program" << endl;
31     return 0;
32 }
```