Exception Handling: Worksheet

**Complete this worksheet and submit to the ‘Exception Handling’ Firefly task.**

1. These websites provide examples of exception handling (some in console mode) – view them:

* [Dot Net Heaven](http://www.dotnetheaven.com/article/how-to-exception-handling-in-vb.net) – example 1
* [Dot Net Heaven](http://www.dotnetheaven.com/article/exception-handling-using-vb.net) [–](http://www.dotnetheaven.com/article/how-to-exception-handling-in-vb.net) example 2
* [Tutorials Point](http://www.tutorialspoint.com/vb.net/vb.net_exception_handling.htm)

1. Find the exceptions to deal with the following:

|  |  |
| --- | --- |
| **Problem** | **Exception** |
| Storing a number that is too big for its data type | Overflowexception |
| Trying to open a file which is already open | IOException |
| Invalid data type | InvalidCastException |
| Division by zero | DivideByZeroException |

1. What 3 elements are required to construct the exception code?

Try Catch Finally

1. Write a program to ask a user to enter an integer. Catch the exception that occurs when a user types a letter/character instead of an integer.

|  |  |
| --- | --- |
| **Code** | **Screenshot** |
| Dim input As Integer  Try  Console.WriteLine("enter integer")  input = Console.ReadLine()  Catch a As InvalidCastException  Console.WriteLine("Invalid format")  Catch a As Exception  Console.WriteLine("Error")  Finally  Console.WriteLine("Done")  End Try  Console.ReadLine() |  |

Extension Questions: Exception Handling

1. What is an exception?

A event that distrup the normal flow of the program while execution

1. What happens if an exception is not handled?

The program will counter an error and the program would not able to work out the result

1. Give an instance of when an exception is occurs.

A number divided by zero

1. In VB, what is **Try..Catch** block used for?

To test a few line of code that ran into error while executed

1. Complete the following comments:

**Try**

‘code that could produce the \_\_\_\_\_***(a)***\_\_\_\_\_\_

**Catch** exceptionObject As SomeExceptionClass

‘handles the \_\_\_\_\_\_\_\_\_\_\_***(b)***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Finally**

‘optional code to run if \_\_\_\_\_\_\_\_\_\_\_\_***(c)***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**End Try**

**(a)error**

**(b)exception**

**(c) the error not occurs**

1. Complete the following code:

Console.Write("Enter an integer: ")

Dim valEntered As String = Console.ReadLine()

Dim int As Integer

Try  
 \_\_\_\_\_\_\_\_\_\_***(a)***\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Catch \_\_\_\_***(b)***\_\_\_\_\_\_\_\_\_\_ As \_\_\_\_\_\_\_***(c)***\_\_\_\_\_\_\_\_\_\_\_

   Console.WriteLine("Exception Caught {0}", \_\_\_\_\_\_\_***(d)****\_*\_\_\_\_\_\_\_\_\_)

End Try  
Console.ReadLine()

**(a)int = console.readline()**

**(b)Cast**

**(c) InValidCastException**

**(d)Cast**