**ICS 108 – Object-Oriented Programming**

**Lab # 17 – Exception Handling**

**Objectives:**

In this lab, the following topic will be covered:

1. Exception Handling

**Task**

Write a method that returns quality points for a letter grade if it is valid, otherwise the method throws an exception .

Quality points are used to calculate your grade point average (GPA). Quality points are earned on a descending scale where 4 quality points are awarded for an "A+" grade and zero quality points are awarded for an "F" grade.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grade | A+ | A | B+ | B | C+ | C | D+ | D | F |
| Quality points | 4 | 3.75 | 3.5 | 3.0 | 2.5 | 2.0 | 1.5 | 1 | 0 |

Write a test program that prompts the user to enter a letter grade and displays the quality points by calling the above method in a try-catch block.

sample run:

Enter a letter grade: A

The quality points 3.75

Enter a letter grade: C

The quality points 2.0

Enter a letter grade: X

Invalid grade