

## Unit 5 – Exceptions Test – Part 2

(8 points each)

Import the JAR file from Schoology to get started.

Then, implement the changes described for each task.

When done, submit via Schoology.

### Task 1 – Percentage of Vowels

Complete the method *percentVowels* to calculate the percentage of vowels in a String of letters.

The method returns a double in the range [0-100], representing a percentage.

If there is a character other than a letter in the string, the method throws an `UnexpectedCharacterException`. (You will need to create this exception class.)

Consider “y” to be a consonant.

When correctly implemented, your program should print the following output.

**Output:**

```
Happy: 20.0%
Jackson: 28.6%
School Days: Illegal characters in string!
Gr4et: Illegal characters in string!
i: 100.0%
AeIoU: 100.0%
b: 0.0%
16: Illegal characters in string!
```

### Task 2 – File Not Found

The Task2 file won't compile!

Add code to the main method to handle the exception thrown in line 9.

If the exception occurs, the program should print the message:

**The file was not found!**