Seneca College

May 15, 2019

Applied Arts & Technology
SCHOOL OF COMPUTER STUDIES

JAC444 Demo and Final Code Due date : May 24, 2019

Workshop 1

Notes:

i. Each task should be presented during the lab, demo worth 70% of the workshop marks and code uploading worth the other 30%.
ii. Make sure you have all security and check measures in place, like wrong data types etc., no need to implement Exception as we haven't covered yet. There are other ways to handle bad input data.
iii. Given output structure is just for student to have a glimpse what the output can look, student are free to make the output better in any way.
iv. The final should be submitted by the midnight to avoid late penalties which are 10% each day late.

Other inputs can be given during demo, so make sure you test your program properly.

Task 1: Write a hangman game that randomly generates a word and prompts the user to guess one letter at a time, as shown in the sample run. Each letter in the word is displayed as an asterisk. When the user makes a correct guess, the actual letter is then displayed. When the user finishes a word, display the number of misses and ask the user whether to continue to play with another word. If the user missed the same letter more than one time give extra hint to the player like "You've already tried this letter try another letter". Don't count twice the same letter which is missed by the user. Declare an array to store words, as follows:

```
// Add any words you wish in this array
String[] words = {"write", "that", ...};
```

```
(Guess) Enter a letter in word ******* > p Enter
(Guess) Enter a letter in word p****** > r Enter
(Guess) Enter a letter in word pr**r** > p Enter
     p is already in the word
(Guess) Enter a letter in word pr**r** > o Enter
(Guess) Enter a letter in word pro*r** > g Enter
(Guess) Enter a letter in word progr** > n Enter
     n is not in the word
(Guess) Enter a letter in word progr** > m Enter
(Guess) Enter a letter in word progr*m > a Enter
The word is program. You missed 1 time
Do you want to guess another word? Enter y or n>
```

Task 2: Craps is a popular dice game played in casinos. Write a program to play a variation of the game, as follows:

1. Roll two dice.
2. Each die has six faces representing values 1, 2, …, and 6, respectively.
3. Check the sum of the two dice. If the sum is 2, 3, or 12 (called *craps*), you lose; if the sum is 7 or 11 (called *natural*), you win; if the sum is another value (i.e., 4, 5, 6, 8, 9, or 10), a point is established.
4. Continue to roll the dice until either a 7 or the same point value is rolled. If 7 is rolled, you lose. Otherwise, you win.

Your program acts as a single player. Here are some sample runs.

```
You rolled 5 + 6 = 11
You win
```

```
You rolled 1 + 2 = 3
You lose
```

```
You rolled 4 + 4 = 8
point is 8
You rolled 6 + 2 = 8
You win
```