



SOFE 3950U: Operating Systems

TUTORIAL #4: Jeopardy Game

Group: 12

Group Members:

Khushpreet Kaur (100904928)

Jasleen Saini (100853617)

Saumya Pandya (100845715)

Vidurshan Sribalasuhabiramam (100558257)

Tutorial CRN: 74027

Date: 10 February 2025

Github Repository Link:

https://github.com/OS-CRN74025-Group1/Tutorial4_JeopardyGame.git

The program asks for the names of the four players who will be playing Jeopardy

```
Enter the name of player 1: a
Enter the name of player 2: b
Enter the name of player 3: c
Enter the name of player 4: d
```

The program then starts the game of Jeopardy and prints out each of the question categories and displays the dollar values for each question.

```
Available Categories:
1. programming ($100)
2. algorithms ($100)
3. databases ($100)
4. programming ($200)
5. algorithms ($200)
6. databases ($200)
7. programming ($300)
8. algorithms ($300)
9. databases ($300)
10. programming ($400)
11. algorithms ($400)
12. databases ($400)
Enter player name to choose a category: █
```

The program accepts the name of the person selected to pick the category and question and checks if the name is of an actual player.

```
Enter player name to choose a category: k
Invalid player name
```

Once the player's name has been entered the program must prompt the player for the category and dollar amount question. It verifies if the answer is correct and awards the player points according to the question value.

```
Enter player name to choose a category: a
Enter category and value: programming 100
Question: What is the file extension for a Python source code file?
Enter your answer: what is .py
Correct! Player 'a' is awarded 100 points
```

The program must verify that the category and dollar amount question has not already been answered.

```
Enter player name to choose a category: b
Enter category and value: programming 100
Question already answered. Choose another.
```

The program verifies if the answer is valid. If not, it displays "incorrect" and provides the correct answer

```
Enter player name to choose a category: b
Enter category and value: algorithms 100
Question: What data structure follows the First In, First Out (FIFO) principle?
Enter your answer: what is stack
Incorrect! The correct answer was: queue
```

The program runs until all questions are answered and prints the final result.

```
Final Results:
1. a - 600 points
2. c - 500 points
3. d - 400 points
4. b - 300 points
jasleen-saini@jasleen-saini-VirtualBox:~/S0FE3950U/Tutorial-4/jeopardy_source$
```

Contribution Matrix:

Group Member	Contribution
Vidurshan Sribalasuhabiramam	Worked on player source files, initial documentation and CI pipeline.
Saumya Pandya	Worked on the question header and source files
Khushpreet Kaur	Implemented tokenize function for parsing answers and show_results function for ranking players for jeopardy.c. Conducted testing of files.
Jasleen Saini	Worked on the main() component of jeopardy.c. Completed initial integration testing of all files, resolved compilation errors, and edited the files to ensure the code functions as intended.