



CTU training solutions

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Instructions

Module Name: Basic Programming – BP411

Assessment Type: Group Activity 4

Total Mark Allocation: 40 Marks

Total Hours: 5 Hours

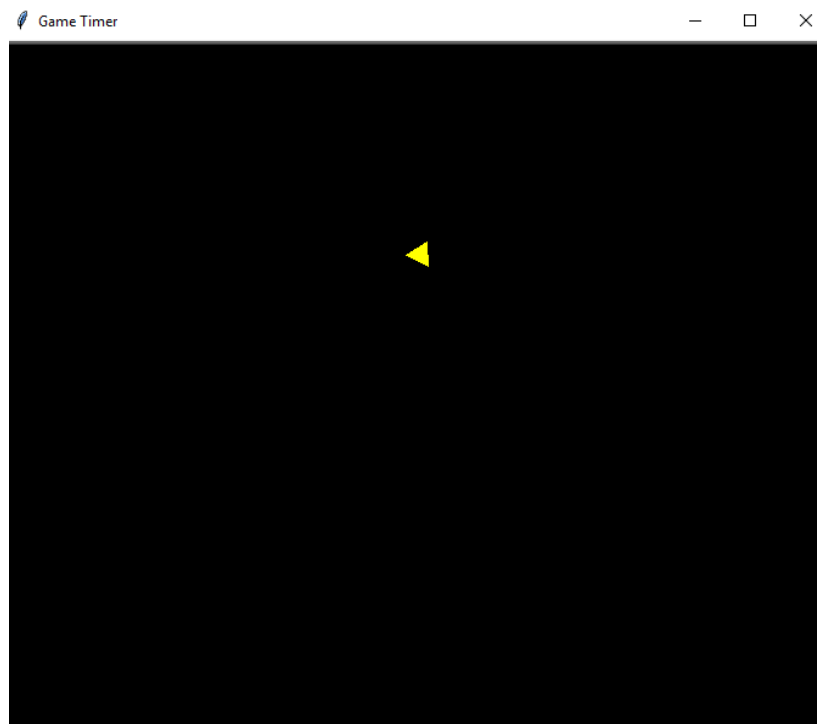
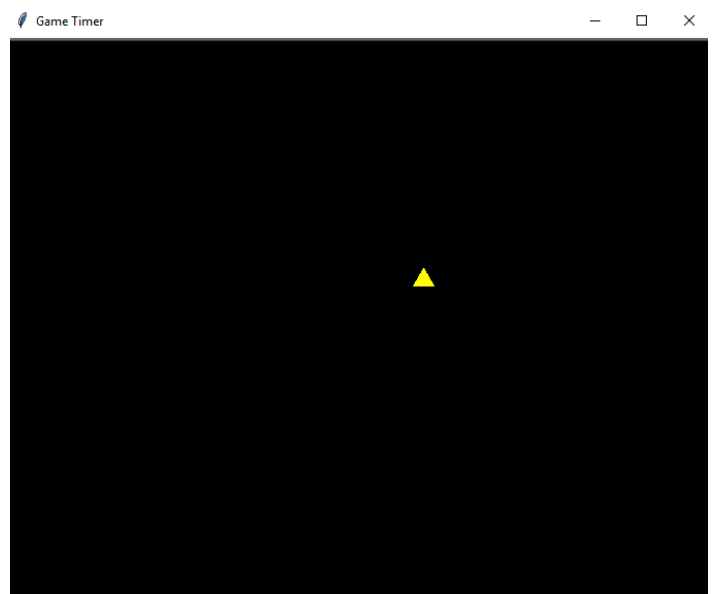
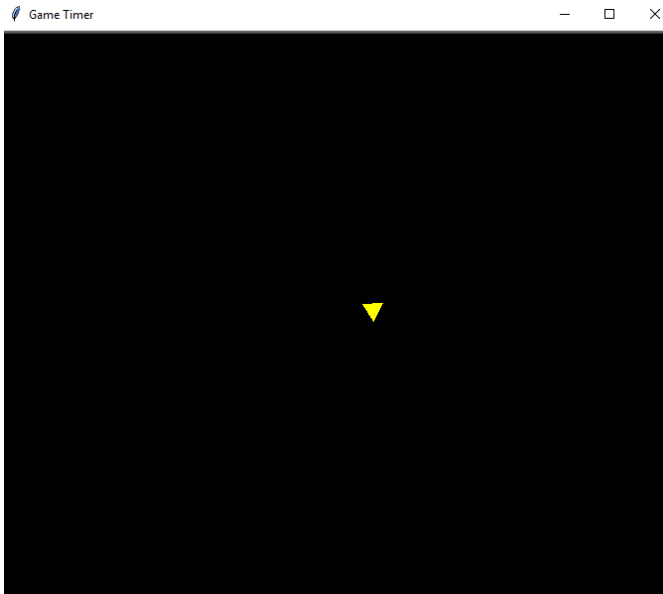
1. No material may be copied from original sources, even if referenced correctly, unless it is a direct quote indicated with quotation marks.
2. No more than 10% of the assessment may consist of direct quotes.
3. No assessment with a similarity index of more than 25%, even if the sources are referenced correctly, will be accepted.
4. Make a copy of your assessment before handing it in.
5. All assessment must be typed unless otherwise specified.
6. All work must be adequately and correctly referenced.
7. All questions should be answered using Python.

Python GAME

PYTHON GAME

1.1

Python gives us many library's headed for use to create all forms of code, including games, for this activity you will need to make use of the library **turtle** to create a game, with this you will create a character which will randomly walk on the screen. Again, the character should have a color (any color of your choice), a shape (any shape of your choice) and also select a background color for the game environment.



Python GAME

1.2

Include a pause option, to ensure that when pressed the game should stop. The key “p” is used a pause option.

1.3

Include a timer, to ensure that the game will only run for 10 seconds. On the terminal it should show counting down from 10 to 0 and when the timer reach 0 the terminal should display the following message

GAME OVER, as show below. Ensure that the countdown stops if the game is paused.

A screenshot of a Visual Studio Code (VS Code) terminal window. The top of the window features a dark-themed header bar with several tabs: 'DEBUG CONSOLE', 'PROBLEMS', 'OUTPUT', and 'TERMINAL'. The 'TERMINAL' tab is currently selected and highlighted. To the right of the tabs, there is a dropdown menu showing '3: Python' with a downward arrow, and four icons: a plus sign, a square, a trash can, and an upward arrow. The terminal itself has a dark background with white text. It displays a sequence of 20 lines, each starting with the number '1'. The final line of the sequence is '0', followed by the text 'GAME OVER' on the next line. The text is left-aligned and appears to be the output of a program running in the terminal.

Python GAME

GA Marking Rubric		
Criteria	Ratings	Pts
Question1 Create a character, with a shape and color, and have a color background. Does the character move around the screen?		15 pts
Question2 Implement a pause system when the key "p" is pressed on the keyboard		10 pts
Question3 Implement a timer system that counts down and stops the game when reaching 0 also if the "p" key is pressed does the countdown stop.		15pts