Final Project Requirements Document

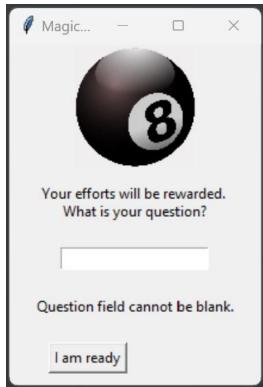
Anna Quigle	ey December	r 18, 2	2022
☑ A working C	GUI tkinter applica	ation w	ith at least two windows.
☑ Implementii	ng a modular app	roach	in your application.
☑ Consistent	clear navigation t	hrough	out the GUI application.
✓ Use at least	t two images in yo	our app	olication
• 8-ball			
univers	se		
✓ Include at le	east three labels.		
image	label		
heade	rlabel		
answe	r line label		
✓ Include at le	east three buttons	5.	
I must	learn		
• I am c	ontent		
• I am re	•		
	more questions		
	atisfied		
• Exit pr			
		ck tunc	tion with each button, including exit button.
• I must		\rightarrow	get_question()
• I am c		\rightarrow	finished()
• I am re	more questions	\rightarrow	return_answer()
	atisfied	\rightarrow \rightarrow	get_question() finished()
	ogram	\rightarrow	quit()
_			tices, including input validation to check if the user entered
•	•		e entry box is not empty, etc.
Input v blank.	alidation works u	ısing cl	neck_question() to make sure that the question field is not
•	gled with the prog t errors.	gram g	etting stuck on this module, but eventually worked out code
☐ Validation to	esting Develop	an app	propriate set of test data to fully validate the program against
• the da	ta sets you tested	l agains	st.
	o input (blank que	estion f	ield)
	ong text field	_	
a brief	written explanation	on of th	e results of your tests and what you had to fix.

- First, I tried to write the program in one go. It opened a blank window. I separated the logic from the GUI and that worked. Then I worked on the GUI until I got a working frame. Finally, I put the two together.
- I had a problem with getting the randomized answer to display. I wanted it to replace the user's question in that field. I learned that the field was immutable, so I created a separate label field that was mutable for the answer line.
- I then struggled to get the result from the get_answer module to display as text on the answer_line. I solved this by moving the code from the get_answer module to inside of the return answer module.
- screen shots of your good test data working. (execution of the program showing what the user would see)





main() get_question()





check_question()

Go and be well.

return_answer()

(I did not program that answer, it was randomly selected!)

finished()

☑ User manual creation - You will write and submit a User's manual for your final project and submit it according to the instructions in the attached file.

	will fully document (comment) the corrected Python tkinter source code with appropriate ments including:
\checkmark	A brief explanation of the purpose of each module (Sub) at the beginning of each Sub. (A header's comment)
\checkmark	Explanation of the purpose of each variable where it is declared. (An end line comment)
\checkmark	Line by line, or at least section by section comments within the code, explaining what the line/section does.

- $\ensuremath{\square}$ The link of the GitHub repository for your final project.
 - https://github.com/aquigleyivy/SDEV140.git