

Complete Python Programming Masterclass Beginner to Advanced

Project #1 – Python Magic 8 Ball

This project will present you with the opportunity to apply the skills that you have learned up to this point with the course.

1.1 BUILD A MAGIC 8 BALL APP IN PYTHON

This project will require you to create a single Python file (.py). You will find a file called, “PythonMagicBall-08-01.py” attached to this lecture. You can use this file as a starting point for the project.

The project will prompt the user to type a question. The code will then randomize a response and return (print) the response back to the user, based on 8 pre-defined response.

Step 1

- Two modules will need to be imported into your Python file.
 - “sys” module and the “random” module
 - You can read more on the “sys” module here:
<https://docs.python.org/2/library/sys.html>
 - You can read more on the “random” module here:
<https://docs.python.org/2/library/random.html>
- Research the two modules by using the “dir” function. Ex. dir(math)
 - Identify any of the attributes/functions that will help you in completing this project

Requirements

- When a user runs the project, they should receive a prompt (printed message), asking them to ask the magic 8 ball a question.
- The user will then type in a question and press the enter key.
- Logic, built in the code, will then return a random response back to the user.
 - Valid random response will include:
 - “IT IS CERTAIN”
 - “YOU MAY RELY ON IT”
 - “AS I SEE IT, YES”
 - “OUTLOOK LOOKS GOOD”
 - “MOST LIKELY”
 - IT IS DECIDELY SO”
 - “WITHOUT A DOUBT”
 - “YES, DEFINETLY”
 - You can decide how to store the valid responses and how to randomly return on of the responses.
- The program should continue to run in a loop, returning a random response for each question they user types.

- If the user doesn't enter a question and the presses the enter key, then the application should quit.

***** CODE SPOILER *****

COMPLETED CODE IS FOUND ON THE NEXT PAGE

```
File Edit Format Run Options Window Help
#import modules
import sys
import random

#initial variables
#loop variable
#list of responses variable
questions = True
responses = ["It is certain", "You may rely on it", "As I see it, yes", "Outlook good", "It
            "It is decidedly so", "Without a doubt", "Yes definitely"]

#while loop
while questions:
#user question input
    ques = input("Ask a question. (press ENTER to quit)")
#random response generator
    magic_response = responses[random.randint(0,7)]
#if statement
    if ques == "":
        sys.exit()
    else:
        print(magic_response)
```