

Intro to Python Project 3a

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1 Introduction

For this project, you will utilize data input, else-if ladders and random numbers in order to create a magic eight ball. For the program, you will have the user input a question. Based on a random number, the program will output one of the 20 different Magic Eight Ball answers.

2 Random Numbers

In order to use random numbers, you must import a library called random. The first line of your code should read `import random`. The function to create a random number is `random.randint(start_value, range)`

```
import random

rand_num = random.randint(start_val, range)
```

Figure 1: Correct Implementation of Random Numbers

3 Implementation

3.1 Question Input

Ask the user to input a question to ask the magic eight ball

3.2 Random Number Creation

Create a random number that has a range of 20 digits. See the Random Numbers section for implementation.

3.3 Output

Using the random number, create an else-if latter which will output one of the 20 different messages shown below:

1. It is certain.
2. It is decidedly so.
3. Without a doubt.
4. Yes - definitely.

5. You may rely on it.
6. As I see it, yes.
7. Most likely.
8. Outlook good.
9. Yes.
10. Signs point to yes.
11. Reply hazy, try again.
12. Ask again later.
13. Better not tell you now.
14. Cannot predict now.
15. Concentrate and ask again.
16. Don't count on it.
17. My reply is no.
18. My sources say no.
19. Outlook not so good.
20. Very doubtful.

4 Example Outputs

```
What would you like to ask the Magic Eight Ball? Will I win the lottery?  
Your question is: Will I win the lottery?  
Your answer is: Cannot predict now
```

Figure 2: Example Output

```
What would you like to ask the Magic Eight Ball? Will I win the lottery?  
Your question is: Will I win the lottery?  
Your answer is: It is decidedly so
```

Figure 3: Example Output