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8-Ball

```
"""
    8-Ball Message Generator
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"""

from microbit import *
import random

# list of possible answers
answers = [
    "It is certain",
    "It is decidedly so",
    "Cannot predict now",
    "Concentrate and ask again",
    "Don't count on it",
    "My reply is no",
    "My sources say no",
    "Outlook not so good"
    "Very doubtful",
]

while True:
    display.show("8")
    if accelerometer.was_gesture("shake"):
        display.clear()
        sleep(1000)

        # 1 pick a random item from the list.
        # 2 Convert it to a string
        # 3 scroll it.
        display.scroll(random.choice(answers))
```

Code Explained

answers List

Each of the possible messages is held in a list. A list holds multiple values. In this example, the list has 9 values and each one of those 9 values is a string (of characters).

```

answers = [
    "It is certain",
    "It is decidedly so",
    "Cannot predict now",
    "Concentrate and ask again",
    "Don't count on it",
    "My reply is no",
    "My sources say no",
    "Outlook not so good",
    "Very doubtful",

```

The square brackets and each item is separated by a comma. The list can also be arranged on a single line:

```

answers = ["It is certain", "Dont count on it", "Ask again",]

```

Was it Shaken?

```

if accelerometer.was_gesture("shake") is True:

```

`.was_gesture(gesture)` returns a True or False depending on whether gesture was the most recently detected gesture. `.was_gesture(freefall)` would return True if the microbit was thrown into the air.

The [API for the accelerometer module](#) lists other gestures that can be used.

Random Choice from List

```

display.scroll(answers.choice)

```

`.choice` picks a random item from the `answers` list.

Using `random` requires the `random` module to be imported. This is done at the beginning of the program:

```

from microbit import *
import random

```

A module (like `random`) is a collection of pre-existing code you can reuse.

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8-Ball

Make a funky 8-ball for the microbit. It shows a different message each time it's shaken.

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