The joke machine

Introduction

This is a **pair programming** activity. You will be working in pairs to create a joke machine program. Remember to switch driver and navigator roles every five minutes.

Scenario

The joke machine is a program that tests your skills in joke punchlines. It gives you the opening line to a joke and you must guess the punchline. If you are correct, then you win a point!

Use the jokes provided to make a program that will:

- Include an introduction to the game
- Tell the start of a joke
- Allow the user to guess the punchline
- Check if the user is correct
 - Give the user a point if they guess correctly
 - Provide feedback if they guess correctly
 - Provide feedback if they are incorrect
- Reveal the final score at the end

Jokes

Common errors (use this checklist to help you debug your code):	
	Capital P used for print
	Brackets missing from start or end of text
	Speech marks missing from start or end of text
Task 2: Ask for the punchline Tick ✓ off the subtasks as you go:	
	Write the opening statement to the first joke
	Create a variable to hold the user's guess
	Decide if you want the data to be converted to uppercase or lower case, and use the appropriate function for this
	Write an if statement that includes a condition to check if their punchline guess is correct

Provide some text to display if they are correct

Sample code block:

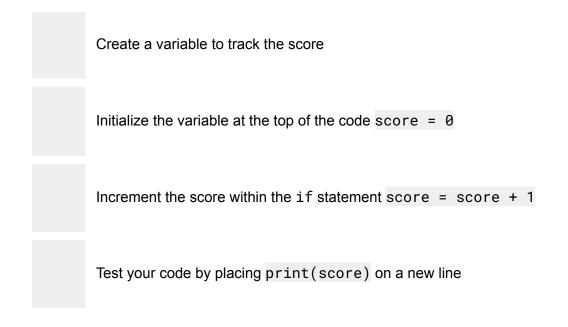
```
print("Here is the start of my joke")
punchline = input().upper()
if punchline == "THE PUNCHLINE":
    print("Well done, you were correct!")
```

Common errors (use this checklist to help you debug your code):

- Upper case I is used for If
- ☐ One = sign is used instead of ==
- ☐ Colon: missing at the end of the if
- ☐ Indents/spaces have been missed
- Quotations missed around the punchline in the condition
- ☐ Punchline in the condition is written in uppercase but .lower() has been used

Task 3: Keep score

Tick ✓ off the subtasks as you go:



Delete the print(score) line of code once testing is complete.

Common errors (use this checklist to help you debug your code):

- □ Score hasn't been initialized at the top of the code
- ☐ Incorrect spelling of score variable
- □ Score hasn't been incremented in the correct place (it should be directly underneath the well done statement, inside the if statement)

Task 4: Feedback if they are incorrect

Tick ✓ off the subtasks as you go:

Add an else: underneath the if

Add a print statement that provides feedback on the joke

Test your code

Sample code block:

else:

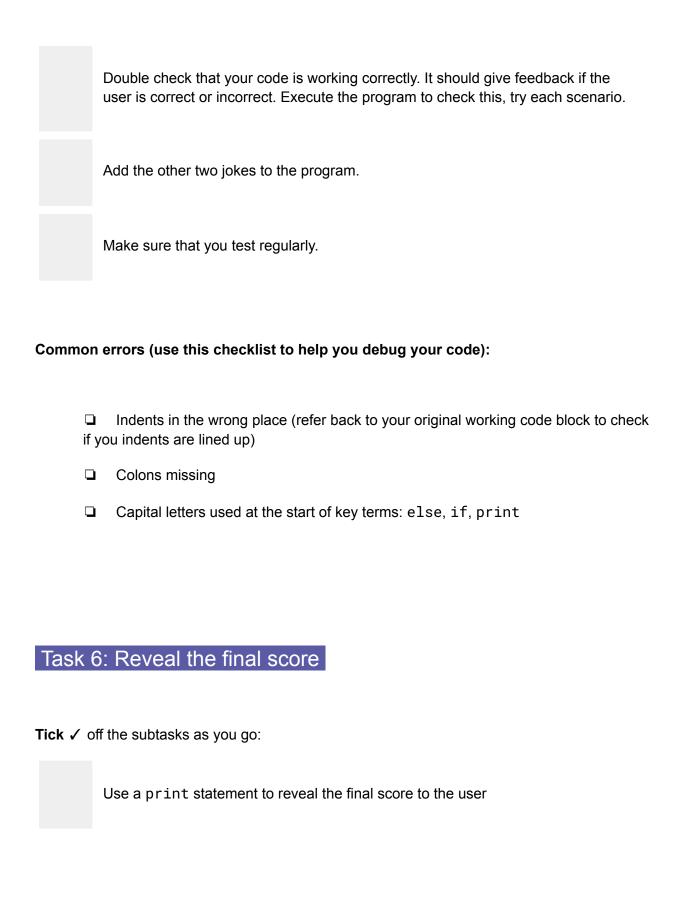
print("Wrong, it was this punchline")

Common errors (use this checklist to help you debug your code):

- ☐ Else has a capital E
- ☐ Colon: missing after the else
- print statement not indented
- □ else isn't inline with the if

Task 5: Add more jokes

Tick ✓ off the subtasks as you go:



Common errors (use this checklist to help you debug your code):

- score = score + 1 has not been correctly placed inside each if
- ☐ Incorrect spelling of score variable

Task 7: Improve your game

Your user might type something that is correct but is worded slightly differently. For example, instead of writing a brown stick they might just write brown stick. This would still technically be a correct answer.

Tick ✓ off the subtasks as you go:

Add an elif block to the brown stick and the newspaper jokes so that the user will still get a point if they miss the a

Remember that your user will also earn a point for their correct answer

Test your code

Sample code:

```
elif punchline == "BROWN STICK":
  print("You got it!")
  score = score + 1
```

Common errors (use this checklist to help you debug your code):

- ☐ Elif has a capital E instead of lower case
- ☐ The colon: is missing from the end of the elif
- print and score aren't indented within the elif
- elif written in the wrong place (it should be after the if and before the else)

Explorer tasks

Tick ✓ off the subtasks as you go:

Improve the game further by thinking of other possible answers that users might give and provide feedback for those

Use another set of conditions to provide feedback to the user based on their score. There should be feedback for 0, 1, 2, or 3