

Selection

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Creating a Simple Quiz

This task will use the commands and skills from the previous few lessons:

Command or	What it does
Variables	Container to store values
print()	Puts a message on the screen
input()	Allows the user to type something in
if/else	Allows a different path to be chosen depending on whether or not a condition

Tips before you start:

- Don't be worried about getting errors – you are not going to break the computers!
- Test as you go – save and run as you complete little bits – makes it easier to fix if you get an error

Errors:

- Syntax: Are you missing a bracket or speech mark?
- Indenting are the bits of code lined up right? Indents are important – and they are always **4 spaces**
- Sometimes code will run without crashing but not give the outcome you want! Read the code and check your logic!
- Bear in mind that with this example, the user must spell the answer exactly as you have coded it e.g. "Paris" and "paris" are not the same thing!

Step 1 – Welcome message

Simple print command

```
76 *Untitled*
File Edit Format Run Options Windows Help
print("Welcome to the Capitals Quiz!")
```

Step 2 – First question

'question1' is the variable here

```
76 *Untitled*
File Edit Format Run Options Windows Help
print("Welcome to the Capitals Quiz!")
question1=input("What is the capital of France?")
```

Don't forget the indenting

The 'else' needs to be in line with the 'if'

```
if question1=="Paris":  
    print("Correct!")  
else:  
    print("Incorrect!")
```

Step 3 – More questions

Each question will be the same structure – need to make sure variable matches the variable in the 'if' condition!

```
74 "Untitled"  
File Edit Format Run Options Windows Help  
print("Welcome to the Capitals Quiz!")  
question1=input("What is the capital of France?")  
if question1=="Paris":  
    print("Correct!")  
else:  
    print("Incorrect!")  
question2=input("What is the capital of Germany?")  
if question2=="Berlin":  
    print("Correct!")  
else:  
    print("Incorrect!")
```

Step 4 – Keeping score

Go back to the start of the program and add a new variable

Add this line to increase the score only if the question answered correctly – do this for all questions!

```
File Edit Format Run Options Windows Help
print("Welcome to the Capitals Quiz!")
score=0
question1=input("What is the capital of ")
```

```
question1=input("What is the capital of ")
if question1=="Paris":
    print("Correct!")
    score=score+1
```

At the very end – put this in to print the final score

The str() command converts score (an integer) to a string so we can add it to the message

```
print("You scored:"+str(score))
```

EXT:

- Award more points for harder questions
- Setting a 'Pass' mark by using an 'if' structure (i.e. if score>50)
- Personalise by asking for the user to enter their name at the beginning
- Think of how you might deal with the 'case sensitive' issue when the user enters their answer