Functions

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Prior to attempting these exercises ensure you have read the lecture notes and/or viewed the video, and followed the practical. You may wish to use the Python interpreter in interactive mode to help work out the solutions to some of the questions.

Download and store this document within your own filespace, so the contents can be edited. You will be able to refer to it during the test in Week 6.

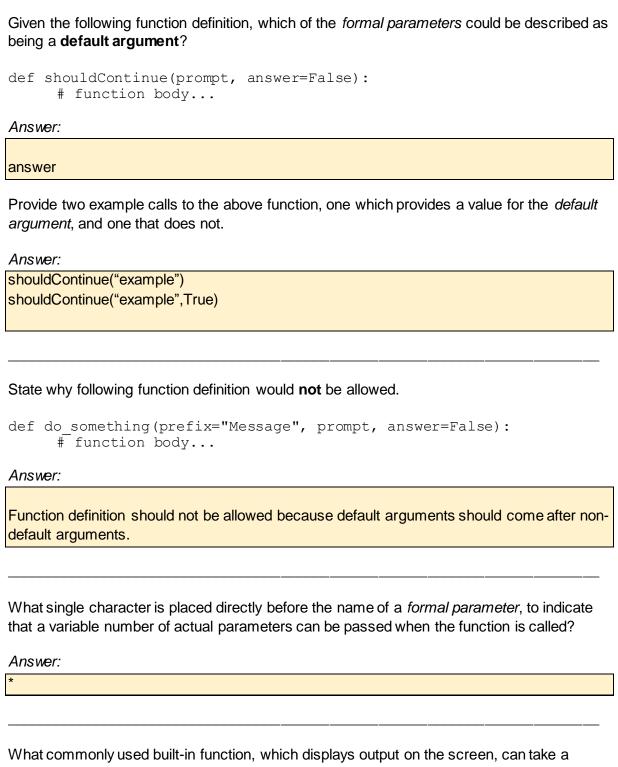
Enter your answers directly into the highlighted boxes.

For more information about the module delivery, assessment and feedback please refer to the module within the MyBeckett portal.

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What must be done before a function that is not <i>built-in</i> to Python can be used in a program?
Answer:
Define the specific function
Given the following import statement, how would a call to the sin() function be made?
import math
Answer:
math.sin
Given the following import statement, how would a call to the sqrt() function be made?
from math import sqrt
Answer:
sqrt()
Sqrt()
What is the name of the common library that is available with all Python distributions?
What is the harne of the common library that is available with all 1 yellon distributions:
Answer:
Python standard library
What knowerd is used in Duthon to define a new function?
What keyword is used in Python to define a new function?
Answer:
def
Write same Dath as and that defines a function salled a second state of the second sta
Write some Python code that defines a function called print_header (msg). This should output the value provided by the 'msg' parameter to the screen (prefixed by five asterisk
'*****') characters.
, ,
Answer:
def print_header(msg):

```
prefixed ="*****"
       print(msg + prefixed)
       print_header("Dikshya Khadka")
In the answer box below give an example of what the docstring may look like for the
print header (msg) function.
Answer:
""Print the value passed with the prefix ***** """
Where within a function definition should a docstring appear?
Answer:
Docstring should appear at the first line of the function in program.
What statement should appear within a function's code block to cause a specific value to be
passed back to the caller of the function?
Answer:
return
Write some Python code that defines a function called find_min(a,b) that returns the
smallest of the two given parameter values.
Answer:
def find_min(a,b):
  if a > b:
       return b
else:
       return a
```



variable number of arguments?

Answer:

print()			

Is it valid for a function's parameter name to be prefixed by two asterisk characters ' $\star\star$ ' as shown below?

```
def send_output(**details):
     # function body...
```

Answer:

Yes,it is valid.

If present, what does this prefix indicate?

Answer:

Prefix is used to pass any variable keyword arguments to a function.

What is the name given to a small 'anonymous' function that must be defined using a single

What is the name given to a small 'anonymous' function that must be defined using a single expression?

Answer:

Lamda Function

Give an example of such a function that calculates the *cube* of a given number (i.e. the value of the number raised to the power of three) -

Answer:

def cube(number)
return number*number*number

Exercises are complete

Save this logbook with your answers. Then ask your tutor to check your responses to each question.