# Homework 5.1

## Part 1

For each of the following fragments of code in this section, select the block/line of code that the selected statement is a part of.

1) What block of code does the statement on line 2 belong to?

```
1   if age > 21:
2       print("You are old enough")
```

    a) The top / global scope.
    b) The `if` statement on line 1.
    c) None of the above.

2) What block of code does the statement on line 2 belong to?

```
1   while counter < 21:
2       if age > 21:
3           print("You are old enough")
```

    a) The top / global scope.
    b) The `while` statement on line 1.
    c) None of the above.

3) What block of code does the statement on line 3 belong to?

```
1   while counter < 21:
2       if age > 21:
3           print("You are old enough")
```

    a) The top / global scope.
    b) The `while` statement on line 1.
    c) The `if` statement on line 2.
    d) None of the above.

4) What block of code does the statement on line 2 belong to?

```
1  def show_message(age):
2      if age > 21:
3          print("You are old enough")
```

    a) The top / global scope.
    b) The `show_message` function on line 1.
    c) None of the above.

5) What block of code does the statement on line 5 belong to?

```
1  def show_message(age):
2      if age > 21:
3          print("You are old enough")
4
5  if age > 21:
6      print("You are old enough")
```

    a) The top / global scope.
    b) The `show_message` function on line 1.
    c) None of the above.

## Part 2

The following questions all relate to the snipped of code below.

```
1  def search_files(search_text, files):
2      found_files = []
3      for file in files:
4          if search_text in file:
5              found_files.append(file)
6      return found_files
```

6) What block of code does the `return` statement belong to?

    a) The top / global scope.
    b) The `search_files` function on line 1.
    c) The `for` loop on line 3.
    d) The `if` statement on line 4.
    e) None of the above.

7) What block of code would the `return` statement belong to if it was indented to the right by one level?

   a) The top / global scope.
   b) The `search_files` function on line 1.
   c) The `for` loop on line 3.
   d) The `if` statement on line 4.
   e) None of the above.

8) What block of code would the `return` statement belong to if it was indented to the right by two levels?

   a) The top / global scope.
   b) The `search_files` function on line 1.
   c) The `for` loop on line 3.
   d) The `if` statement on line 4.
   e) None of the above.

9) What block of code does the `found_files` declaration on line 2 belong to?

   a) The top / global scope.
   b) The `search_files` function on line 1.
   c) The `for` loop on line 3.
   d) The `if` statement on line 4.
   e) None of the above.

10) Using your own words, explain when the `found_files` variable is declared (created).