socrative

Week 1 Quiz

11 Questions

1. Int, string, float, tuple and boolean are examples of what kind of attributes in Python?

5/145 A Constants

135/145 B Types

4/145 C Functions

1/145 D Conditionals

2. In the code pictured here, what kind of programming structure does "def add" represent?

```
def add(a,b):
    return a + b

print (add(input(),input()))
```

1/122 A defender

0/122 B class

1/122 C object

120/122 D function

3. In the code pictured here, from the functions perspective, what are the variables "a" and "b" called?

```
def add(a,b):
    return a + b

print (add(input(),input()))
```

1/126 A keywords

21/126 B variables

8/126 C values

96/126 D parameters

4. In the code pictured here, what will be printed when the program is run with inputs "2" and "5"

```
def add(a,b):
    return a + b

print (add(input(),input()))
```

16/126 A 25

81/126 B 7

1/126 C input

28/126 D an error will occur

i input arguments are string types by default. So rather than perform a mathematical operation, when the python interpreter detects a string the + operator concatenates two arguments.

How would you go about changing the code to get the answer 7?

5. In the code pictured here, what type of programming structure is represented by the variable "trees"?

```
trees = ("eucalyptus", "palm", "pine")

print(trees[1])
```

3/126 **A** Dictionary

72/126 **B** Tuple

28/126 **C** List

23/126 **D** Set

> **i** A tuple is recognizable by it's structure and use of parentheses to enclose values. If you weren't sure about this one, take a look here:
>
> https://www.learnbyexample.org/python-tuple/

6. In the code pictured here, what will be printed when the program is run?

```
trees = ("eucalyptus", "palm", "pine")

print(trees[1])
```

3/125 **A** eucalyptus

118/125 **B** palm

0/125 **C** pine

4/125 **D** error

> **i** In python, data structures are zero-based, meaning the indexer starts at 0. So, referencing the tuple with at position 1 will return the second value in the structure.

7. In the code pictured here, the statement "while" is an example of what programming structure?

```
i = 1
while i < 5:
    print(i)
    i += 1

print("completed: ", i)
```

110/126 **A** loop

16/126 **B** conditional

0/126 **C** function

0/126 **D** class

8. In the code pictured here, what will be printed when the program is run?

```
i = 1
while i < 5:
  print(i)
  i += 1

print("completed: ", i)
```

0/0 **A**
0
1
2
3
4
completed: 4

0/0 **B**
1
2
3
4
completed: 5

0/0 **C**
1
2
3
4
5
completed: 5

9. Abstraction is a programming principle that accomplishes which of the following?

0/0 **A** Hides complexity

0/0 **B** Increase efficiency

0/0 **C** Support code reuse

0/0 **D** All of the above

10. A pre-existing codebase designed to solve a particular type of problem is called a software library.

0/0 **T** True

0/0 **F** False

11. Which of the following is an advantage of using a third-party software library?

0/0 **A** saves time and extends expertise

0/0 **B** dependence of external resources

0/0 **C** makes the program run faster

0/0 **D** get to learn library rather than language