

Unit 2 Concepts and Coding Test

Firia Labs Concepts and Coding from CodeX Missions 6-8

* Indicates required question

1. Student Name *

2. What is the best data type for this value: True *

1 point

Mark only one oval.

Integer

Float

String

Boolean

Tuple

3. What is the best data type for this value: 3.15 *

1 point

Mark only one oval.

Integer

Float

String

Boolean

Tuple

4. What is the best data type for this value: 10 *

1 point

Mark only one oval.

- Integer
- Float
- String
- Boolean
- Tuple

5. What is the best data type for this value: YELLOW *

1 point

Mark only one oval.

- Integer
- Float
- String
- Boolean
- Tuple

6. What is the best data type for this value: "debug" *

1 point

Mark only one oval.

- Integer
- Float
- String
- Boolean
- Tuple

7. What code will increment the variable "number" by 1? *

1 point

Mark only one oval.

- number = value + 1
- number = number + 1
- value = number + 1
- number = number - 1

8. What is the correct code for using a "break" command? *

1 point

Mark only one oval.

```
if buttons.was_pressed(BTN_B):  
    while True:  
        break
```

Option 1

```
if break:  
    buttons.was_pressed(BTN_A)
```

Option 2

```
while True:  
    break
```

Option 3

```
while True:  
    if buttons.was_pressed(BTN_A):  
        break
```

Option 4

9. What does this code do? *

1 point

```
if choice == 0:
```

Mark only one oval.

- Compares "choice" to 0, branching when "choice" is more than 0
- Gives an error message
- Compares "choice" to 0, branching when "choice" is equal to 0
- Assigns the variable "choice" the value 0

10. What does this code do? *

1 point

```
if choice = 0:
```

Mark only one oval.

- Compares "choice" to 0, branching when "choice" is more than 0
- Gives an error message
- Compares "choice" to 0, branching when "choice" is equal to 0
- Assigns the variable "choice" the value 0

11. What is the result if BTN_B is pressed? *

1 point

```
index = 1
if buttons.was_pressed(BTN_B):
    index = index - 1
    if index == 0:
        index = 5
```

Mark only one oval.

- index = 1
- index = 0
- index = 5
- An error occurs

12. What code will give the number of items in a list? *

1 point

Mark only one oval.

- str(my_list)
- int(my_list)
- len(my_list)
- get_items(my_list)

13. What value is always the FIRST index of every list? *

1 point

Mark only one oval.

- 1
- 0
- A
- len(my_list) - 1

14. What value is always the LAST index of every list? *

1 point

Mark only one oval.

- 1
- 0
- A
- `len(my_list) - 1`

15. Given this list, what are the possible values of index? *

1 point

```
my_list = ["A", "B", "C", "D", "F"]
```

Mark only one oval.

- 0, 1, 2, 3, 4
- 1, 2, 3, 4, 5
- A, B, C, D, F
- `len(my_list) - 1`

16. Given this list, what is the item at `my_list[2]`? *

1 point

```
my_list = ["A", "B", "C", "D", "F"]
```

Mark only one oval.

- "A"
- "B"
- "C"
- "D"

17. Given this code, what is the "count" variable doing? *

1 point

```
answers = ["Pizza", "Burger", "Salad",  
           "Burrito", "Nothing", "Pasta"]  
count = len(answers)  
index = random.randrange(count)
```

Mark only one oval.

- Stores the number of items in the list to use in the randrange function
- Selects an item from the list and displays it on the screen
- Automatically scans the list and returns the number of items
- Selects a random number between 0 and the number of items in the list

18. Given this code, what is the "index" variable doing? *

1 point

```
answers = ["Pizza", "Burger", "Salad",  
           "Burrito", "Nothing", "Pasta"]  
count = len(answers)  
index = random.randrange(count)
```

Mark only one oval.

- Stores the number of items in the list to use in the randrange function
- Selects an item from the list and displays it on the screen
- Automatically scans the list and returns the number of items
- Selects a random number between 0 and the number of items in the list

19. Given this code, what are the possible values of "number"? *

1 point

```
index = random.randrange(4)
```

Mark only one oval.

- 1, 2, 3, 4, 5
- 0, 1, 2, 3, 4, 5
- 0, 1, 2, 3, 4
- An error will occur

20. What does this command do? *

1 point

```
my_choice = random.choice(answers)
```

Mark only one oval.

- Assigns "answer" a random item from "my_choice"
- Assigns "my_choice" a random item from "answers"
- Assigns "my_choice" a random number between 0 and "answers"
- Will cause an error

21. What is the result of this code? *

1 point

```
answers = ["Pizza", "Burger", "Salad",  
           "Burrito", "Nothing", "Pasta"]  
my_choice = answers[6]
```

Mark only one oval.

- Assigns "my_choice" the value 6
- Assigns "my_choice" the value "Pasta"
- Assigns "my_choice" a random item from the list "answers"
- Will cause an error

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