1 Multiple Choice 1 point While Loop syntax

In this scenario, variable **a = 10** and variable **b = 0**. Which option has the correct syntax for a **while loop** using **a** and **b?**

- (●)
```
while a > b:
     b+=1
```
- ( )
```
b+=1 while:
    a > b
```
- ( )
```
for i in range(a):
    b+=1
```
- ( )
```
a > b:
   while b+=1
```

2 Multiple Choice 1 point While loop with if

What will the following code print?

```
a = 0
while True:
    a += 1
    print(f"counting start: {a}")

    if a >= 3:
        break
```

- (●) counting start: 1
  counting start: 2
  counting start: 3
- ( ) counting start: 1
  counting start: 2
  counting start: 3
  counting start: 4
  counting start: 5
  counting start: 6
  counting start: 7
  counting start: 8
  counting start: 9
  counting start: 10
- ( ) Nothing
- ( ) counting start: 1
  counting start: 2

3 True or False 1 point Working with Menu

The following code **will not** have an error when the user provides **N** as an input.

```
10  while True:
11      input_1 = input("would you like to continue? (Y/N):")
12
13      if input_1.lower() == "n":
14          break
```

- (●) True
- ( ) False

4 Multiple Answer 1 point Break free from while loop

How can you break free from an **infinite loop** inside the following code? Select all possible answers.

```
16  a = 100
17  while True:
18      print("i'm in loop.......")
19
20      # your answer.
```

- [x]
```
if a == 100:
    break
```

- [x]
```
exit()
```

- [ ]
```
continue
```

- [ ]
```
False
```

5 Multiple Choice 2 points Break from while loop with Condition

What is the last print statement inside the following while loop?

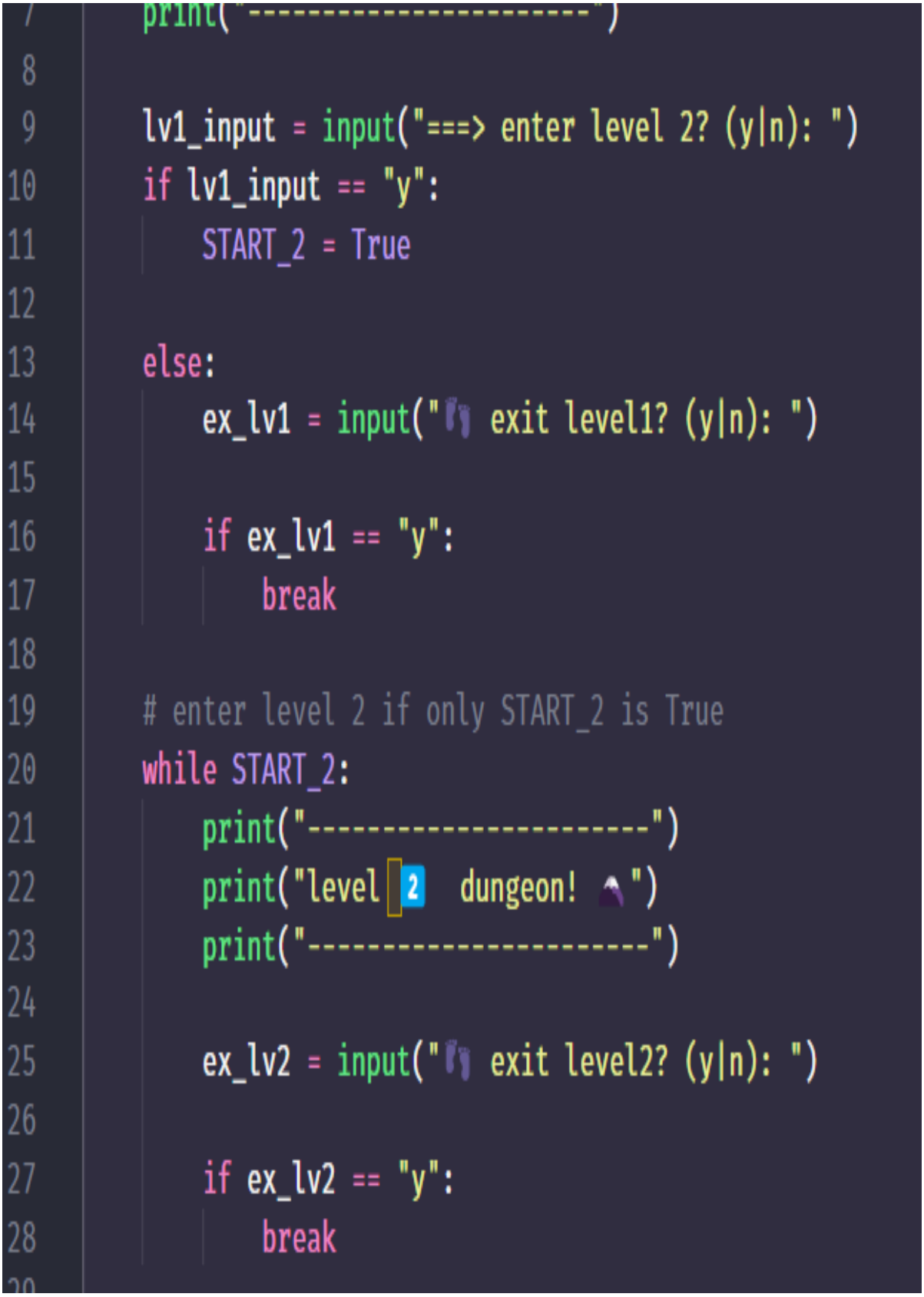
```
16  a = 90
17  while a <= 100:
18      print("i'm in loop.......")
19      a += 1
20      print(f"counting {a}")
21
```

- (●) i'm in loop.....
  counting 101
- ( ) i'm in loop.....
  counting 100
- ( ) i'm in loop.....
  counting 99

6 Multiple Choice 4 points Nested Loop

What happens when the user provides a **y** value for line 25?

```
1  START_1 = True
2  START_2 = False
3
4  while START_1:
5      print("----------------------")
6      print("Level 1 dungeon! ")
```



```
print("---------------------")

lv1_input = input("===> enter level 2? (y|n): ")
if lv1_input == "y":
    START_2 = True

else:
    ex_lv1 = input("👣 exit level1? (y|n): ")

    if ex_lv1 == "y":
        break

# enter level 2 if only START_2 is True
while START_2:
    print("---------------------")
    print("level 2 dungeon! 🏔")
    print("---------------------")

    ex_lv2 = input("👣 exit level2? (y|n): ")

    if ex_lv2 == "y":
        break
```

- (●) Go back to level 1 dungeon
- ( ) Exit the application
- ( ) Stay in level 2 dungeon

- Nothing changes