

# PYTHON TEST 2

**1. What will be the output of the following code?**

```
a = [1, 2, 3, 4]
```

```
print(a[1:3])
```

- A) [1, 2]
- B) [2, 3]
- C) [2, 3, 4]
- D) [1, 2, 3]

**2. What will be the output of this code?**

```
x = (1, 2, 3)
```

```
x[1] = 5
```

```
print(x)
```

- A) (1, 5, 3)
- B) [1, 5, 3]
- C) Error
- D) None

**3. What is the output?**

```
x = [1, 2, 3]
```

```
x.append([4, 5])
```

```
print(x)
```

- A) [1, 2, 3, 4, 5]
- B) [1, 2, 3, [4, 5]]
- C) [1, 2, 3, (4, 5)]
- D) [1, 2, 3, 4], [5]

**4. What will this code print?**

```
a = {1, 2, 3, 4}
```

```
a.add(2)
```

```
print(len(a))
```

- A) 6
- B) 5
- C) 4
- D) Error

**5. What is the output of the following code?**

```
for i in range(3):  
    for j in range(2):  
        print(i + j, end=' ')
```

- A) 0 1 1 2 2 3
- B) 1 2 2 3 3 4
- C) 0 1 2 3 4 5
- D) 0 1 2 3 4

**6. What will be the output?**

```
t = (1, 2, 3)  
print(t.count(2), t.index(2))
```

- A) 1 1
- B) 1 2
- C) 2 1
- D) Error

**7. What will the code below output?**

```
my_list = [0, 1, 2, 3]  
for i in range(len(my_list)):  
    my_list[i] += 1  
print(my_list)
```

- A) Error
- B) [0, 1, 2, 3]
- C) [1, 2, 3, 3]
- D) [1, 2, 3, 4]

**8. What will the following print?**

```
x = [1, 2, 3]
```

```
y = x
```

```
y.append(4)
```

```
print(x)
```

A) [1, 2, 3]

B) [1, 2, 3, 4]

C) Error

D) [4]

**9. Output of the following:**

```
a = [1, 2, 3]
```

```
b = a.copy()
```

```
b[0] = 99
```

```
print(a, b)
```

A) [1, 2, 3] [99, 2, 3]

B) [99, 2, 3] [99, 2, 3]

C) [99, 2, 3] [1, 2, 3]

D) [1, 2, 3] [1, 2, 3]

**10. What is the output?**

```
x = [10, 20, 30, 40]
```

```
print(x.index(30))
```

```
print(x.index(50))
```

A) 2 then Error

B) 2 3

C) 3 then Error

D) Error only

**11. What will be the output of the following code?**

```
x = [1, 2, 3, 4]
```

```
print([i**2 for i in x if i % 2 == 0])
```

- A) [1, 4, 9, 16]
- B) [2, 4]
- C) [4, 16]
- D) [1, 9]

**12. What is the output of the following code?**

```
for i in range(3):  
    print(i)  
else:  
    print("Done")
```

- A) 0 1 2
- B) 0 1 2 Done
- C) 0 1 2 else
- D) Done

**13. What is the key difference between a while loop and a for loop in Python?**

- A) while is used only for lists, for for integers
- B) for is used when the number of iterations is known; while is used when it's based on a condition
- C) while is faster than for
- D) There is no difference

**14. What is the output of this code?**

```
a = [1, 2, 3]  
b = a[:]  
b.append(4)  
print(a, b)
```

- A) [1, 2, 3, 4] [1, 2, 3, 4]
- B) [1, 2, 3] [1, 2, 3]
- C) [1, 2, 3] [1, 2, 3, 4]
- D) Error

**15. What is the output of the following code?**

```
s = "hello world"
```

```
print(s[1:8:2])
```

- A) "el o"
- B) "elwl"
- C) "elw"
- D) "eood"