

# Python Debugging Test

Each question contains a faulty code snippet. Identify the error and choose the correct solution from the given options.

Each question carries 2 marks. The total test is 40 marks.

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**Q1. What will be the output of the following code?**

```
x = 10  
y = "5"  
print(x + y)
```

- A) 15
- B) "105"
- C) TypeError
- D) 10

**Q2. Find the error in this loop:**

```
for i in range(5):  
    print(i)
```

- A) IndentationError
- B) SyntaxError
- C) NameError
- D) No Error

**Q3. What will this function return?**

```
def add(x, y):  
  
    return x + y  
  
print(add(2))
```

- A) 2
- B) Error
- C) None
- D) "2y"

**Q4. What will happen when you run this code?**

```
x = [1, 2, 3]  
  
print(x[3])
```

- A) 3
- B) IndexError
- C) None
- D) 1

**Q5. What will this code print?**

```
x = "Hello"  
  
x[0] = "h"
```

```
print(x)
```

- A) hello
- B) "Hello"
- C) TypeError
- D) H

**Q6. What's wrong with this code?**

```
if 5 > 3:  
    print("Yes")  
  
else:  
    print("No")
```

- A) SyntaxError
- B) IndentationError
- C) Logical Error
- D) No Error

**Q7. What will be the output?**

```
for i in range(3):  
    if i == 2:  
        break  
  
    print(i)
```

- A) 0 1 2
- B) 0 1
- C) 1 2
- D) No Output

**Q8. What error will this code produce?**

```
print("Hello" + 5)
```

- A) TypeError
- B) ValueError
- C) No Error
- D) SyntaxError

**Q9. What will happen?**

```
x = 5  
  
y = 0  
  
print(x / y)
```

- A) 5
- B) 0
- C) ZeroDivisionError
- D) None

**Q10. Find the bug in this function:**

```
def greet():  
  
    print("Hello")  
  
    print("World")
```

- A) SyntaxError
- B) IndentationError
- C) NameError
- D) No Error

**Q11. What will be the output of this function?**

```
def multiply(a, b):  
    print(a * b)  
  
result = multiply(3, 4)  
  
print(result)
```

- A) 12
- B) None
- C) Error
- D) 12 None

**Q12. What error will this code produce?**

```
x = [10, 20, 30]  
  
print(x[5])
```

- A) IndexError
- B) TypeError
- C) NameError
- D) No Error

**Q13. What will this code output?**

```
def test():  
  
    x = 10  
  
print(x)
```

- A) 10
- B) None
- C) NameError
- D) No Error

**Q14. Identify the error in this code:**

```
x = (1, 2, 3)  
  
x[1] = 5
```

- A) SyntaxError
- B) TypeError
- C) No Error
- D) IndexError

**Q15. What will be the output of this loop?**

```
for i in range(3):  
  
    print(i)  
  
    if i == 1:  
  
        continue  
  
    print("End")
```

- A) 0 End 1 End 2 End
- B) 0 End 1 2 End
- C) 0 End 1 2
- D) 0 End 1 End 2 End

**Q16. What will be the output of this code?**

```
def divide(a, b=2):  
  
    return a / b  
  
print(divide())
```

- A) 0
- B) TypeError
- C) None
- D) 1

**Q17. What error will this code produce?**

```
x = [1, 2, 3]  
  
y = x  
  
y.append(4)  
  
print(x)
```

- A) [1, 2, 3]
- B) [1, 2, 3, 4]
- C) TypeError
- D) None

**Q18. What will be the output of this code?**

```
x = 5  
def change():
```

```
x = x + 1  
change()  
print(x)
```

- A) 6
- B) 5
- C) UnboundLocalError
- D) None

**Q19. What will happen when you run this code?**

```
def repeat(word, times):  
    return word * times  
print(repeat(3, "hello"))
```

- A) hellohellohello
- B) "3hello"
- C) TypeError
- D) hello hello hello

**Q20. What will happen when this function is executed?**

```
def func(a, b=[]):  
    b.append(a)  
    return b  
print(func(1))  
print(func(2))
```

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