

## **Practice Test**

1. Which of the following are valid variable names?

1. my\_name
2. 2ndPlace
3. user\_Age
4. -value
5. \_data

2. Which of these are integer variables?

1. a = 7
2. a = "7"
3. a = int("7")
4. a = 7.0
5. a = bool(1)

3. Which loops exist in Python?

1. for
2. while
3. until
4. do-while
5. loop

4. Which print statements show Hello, Elvin! correctly?

1. print(f"Hello, {name}!")
2. print("Hello, " + name + "!")
3. print("Hello, {name}!")

4. `print("Hello," name + "!"")`
5. `print("Hello, " + str(name) + "!"")`
  
5. Which snippets correctly double user input?
  1. `x = input(); print(x*2)`
  2. `x = int(input()); print(x*2)`
  3. `x = float(input()); print(x+x)`
  4. `x = int(input()); print(2*x)`
  5. `x = input(); print(int*x2)`
  
6. Which code prints numbers 1–5?
  1. `for i in range(1,6): print(i)`
  2. `for i in range(5): print(i)`
  3. `i=1; while i<=5: print(i); i+=1`
  4. `i=0; while i<5: print(i); i+=1`
  
7. Which correctly sums 1+2+3?
  1. `s=0; for i in range(1,4): s+=i`
  2. `s=0; for i in range(3): s+=i`
  3. `s=0; i=1; while i<=3: s+=i; i+=1`
  4. `s=0; for i in [1,2,3]: s+=i`
  
8. Which variable statements are true?
  1. Variables store values in memory
  2. Variable names can start with digits
  3. Variables have types

4. Variables cannot change once declared

9. Match literals with their data type:

1. 10.5
2. "10"
3. True
  - a. float
  - b. string
  - c. boolean

10. Match input/output pairs:

1. Read integer
2. Read string
3. Print formatted
  - a. `x = int(input())`
  - b. `name = input()`
  - c. `print(f"Hi {name}")`

11. Which produces [0,1,2]?

1. `list(range(3))`
2. `list(range(1,4))`
3. `list(range(0,3))`
4. `list(range(3,6))`

12. Which operators are comparison operators?

1. `==`
2. `!=`
3. `=`

4. =>

13. Match operations:

1. Add 1
2. Subtract 1
3. Multiply by 2
  - a. `i += 1`
  - b. `i -= 1`
  - c. `i *= 2`

14. Which statements control loops?

1. `break`
2. `continue`
3. `pass`
4. `stop`

15. If `name = "Ali"`, which print statement gives “Hi Ali”?

1. `print("Hi " + name)`
2. `print("Hi", name)`
3. `print(f"Hi {name}")`
4. `print('Hi' name)`

16. Which lines are invalid?

1. `print("Hello")`
2. `print(Hello)`
3. `print('Hello')`
4. `print("Hi" + "There")`

17. Which are valid integer literals?

1. 10
2. 0b11
3. 0xFF
4. 07
5. -25

18. Which loops print even numbers from 2 to 10?

1. for i in range(2,11,2): print(i)
2. for i in [2,4,6,8,10]: print(i)
3. while i<10: print(i)

19. Which types are mutable?

1. list
2. tuple
3. dict
4. set

20. Which types are immutable?

1. int
2. str
3. list
4. tuple

21. Which functions get input from user?

1. read()
2. scan()

- 3. input()
- 4. get()

22. What is the result of:

`x = 5; x += 3; print(x)`

23. What is printed?

```
for i in range(2,5):  
    print(i)
```

24. Which expressions return True?

- 1. `3>2`
- 2. `4==4.0`
- 3. `"2"==2`
- 4. `5!=6`

25. Which is used to skip current iteration?

- 1. `pass`
- 2. `break`
- 3. `continue`

26. Arrange steps to check if number is even:

- 1. read input
- 2. convert to int
- 3. use if `n%2==0`

27. Arrange steps to sum numbers 1–n:

- 1. `s=0`
- 2. `for i in range(1,n+1): s+=i`

3. `print(s)`

28. Which statements about comments are true?

1. start with #
2. can be multiline using """ """
3. comments affect execution

29. What is output of:

`x=3`

`y=4`

`print(x*y)`

30. Which are valid boolean values?

1. True
2. False
3. 0
4. None

31. What is printed?

`x = "5"`

`print(x*3)`

32. What is printed?

`x = int("5")`

`print(x*3)`

33. Which correctly prints numbers 1–3?

1. for i in range(1,4): print(i)
2. while i<=3: print(i); i+=1
3. i=1; while i<=3: print(i); i+=1

34. Which outputs "Equal" when a==b?

1. if a==b: print("Equal")
2. if a=b: print("Equal")
3. if a!=b: print("Equal")

35. What is printed?

```
x=5  
if x>10:  
    print("Big")  
else:  
    print("Small")
```

36. Match data with type:

1. [1,2,3]
2. (1,2,3)
3. {1,2,3}
  - a. set
  - b. tuple
  - c. list

37. Which lines give syntax error?

1. for i in 5: print(i)
2. while i<5 print(i)
3. if i==5 print(i)

4. `x=5; print(x)`

39. Which prints last character of string s?

1. `s[-1]`
2. `s[len(s)-1]`
3. `s[last]`

40. Which expressions are equivalent to `a = a + 1`?

1. `a += 1`
2. `a = a + 1`
3. `a++`

41. Which code block reads input until non-empty name entered?

1. `name = ""  
while not name: name = input()`
2. `name = input(); while name=="": name = input()`
3. `while name=="": name = input()`

42. Which of the following are conditional keywords?

1. `if`
2. `elif`
3. `else`
4. `switch`
5. `match`

43. What does this code do?

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

```
    if i == 3:
```

```
break
```

```
print(i)
```

44. What is the output?

```
for i in range(3):
```

```
    if i==1:
```

```
        continue
```

```
    print(i)
```

45. Which function stops the program?

1. exit()
2. quit()
3. break
4. continue

**46. Keep asking for a non-empty name until valid, then greet:**

1. Prompt/read the name once
2. While the input is empty, prompt/read again
3. Print a greeting with the name

**47. Read two numbers and print the larger (or “Equal” if same).**

3. Print the chosen result
1. Read a and b (text) and convert to integers
2. Decide using if/elif/else which is larger (or equal)