

1 - All programs are normally stored in ROM and are loaded into RAM as needed for processing.

- a)  True  
b)  False  
 Boş bırak

#: c0e190ec-7680-4277-a0b1-027d5bc3e6a6

2 - The CPU understands instructions written in a binary machine language.

- a)  True  
b)  False  
 Boş bırak

#: 3e939240-d2bb-4eb1-801b-a24dfd36cf64

3 - A bit that is turned off is represented by the value -1.

- a)  True  
b)  False  
 Boş bırak

#: 6046e535-1caf-40a6-b9ab-a799df42c00e

4 - RAM is a volatile memory used for temporary storage while a program is running.

- a)  True  
b)  False  
 Boş bırak

#: fd54e091-8523-44d6-a238-e13356e2ac9b

5 - The Python language uses a compiler which is a program that both translates and executes the instructions in a high-level language.

- a)  True  
b)  False  
 Boş bırak

6 - Comments in Python begin with the # character.

- a)  True  
b)  False  
 Boş bırak

#: 61ff044a-aabc-45ee-a1e1-739c7c2c9dfe

7 - In Python, math expressions are always evaluated from left to right, no matter what the operators are.

- a)  True  
b)  False  
 Boş bırak

#: e855ef3c-684a-4a74-bf8f-81f0579a5873

8 - The if statement causes one or more statements to execute only when a Boolean expression is true.

- a)  True  
b)  False  
 Boş bırak

#: b13836bf-fcb9-4ddd-934c-a7eee690d2e4

9 - Python allows you to compare strings, but it is not case sensitive.

- a)  True  
b)  False  
 Boş bırak

#: 535cb256-dfc1-4f0f-a087-6c719eab5d4d

10 - Python uses the same symbols for the assignment operator as for the equality operator.

- a)  True  
b)  False  
 Boş bırak

#: 12ede5e1-3ce1-4204-a85f-e5e0a349f8d8

In a flowchart, both the decision structure and the repetition structure use the diamond symbol to represent the condition that is tested.

- a)  True
- b)  False
- Boş bırak

#: 3dff38fa-4a50-4038-a873-cdd45d6ed739

12 - Both of the following for clauses would generate the same number of loop iterations.

```
for num in range(4):  
for num in range(1, 5):
```

- a)  True
- b)  False
- Boş bırak

#: c340a7d7-19ca-442a-b9f2-944c959c247e

13 - To get the total number of iterations in a nested loop, add the number of iterations in the inner loop to the number in the outer loop.

- a)  True
- b)  False
- Boş bırak

#: c4ca7bd6-4170-4436-bd84-dd5fa954832a

14 - A while loop is called a pretest loop because the condition is tested after the loop has had one iteration.

- a)  True
- b)  False
- Boş bırak

#: 88acb3c2-ac3e-4947-9343-712a411e7eaf

15 - Python function names follow the same rules as those for naming variables.

- a)  True
- b)  False
- Boş bırak

16 - A local variable can be accessed from anywhere in the program.

- a)  True  
b)  False  
 Boş bırak

#: 2f71d15c-2087-455a-9881-23b4fb3b5b88

17 - Different functions can have local variables with the same names.

- a)  True  
b)  False  
 Boş bırak

#: 14026f85-859e-47a6-b436-c43adb59f2ea

18 - The value assigned to a global constant can be changed in the mainline logic.

- a)  True  
b)  False  
 Boş bırak

#: 6a55400a-2364-4465-9c47-5c132f89d50f

19 - The randrange function returns a randomly selected value from a specific sequence of numbers.

- a)  True  
b)  False  
 Boş bırak

#: e485875c-d93e-4e9c-9d3a-b144ea72b7ab

20 - Closing a file disconnects the communication between the file and the program.

- a)  True  
b)  False  
 Boş bırak

#: afc34567-f45e-472d-874e-19676a947448

If the last line in a file is not terminated with `\n`, the `readline` method will return the line without `\n`.

- a)  True
- b)  False
- Boş bırak

#: a225b17b-9849-474e-8716-97d369d2744a

22 - Strings can be written directly to a file with the `write` method, but numbers must be converted to strings before they can be written.

- a)  True
- b)  False
- Boş bırak

#: 4b306ea1-9f45-4ccb-9e5f-d509df79ac7a

23 - Lists are dynamic data structures such that items may be added to them or removed from them.

- a)  True
- b)  False
- Boş bırak

#: 0b82daad-7936-4966-aa60-d8c2c5aac920

24 - A list cannot be passed as an argument to a function.

- a)  True
- b)  False
- Boş bırak

#: 8832d64a-0d04-47c0-8989-74e5cc3bb7d7

25 - The `sort` method rearranges the elements of a list so they are in ascending or descending order.

- a)  True
- b)  False
- Boş bırak

#: f6336f46-6842-489a-8464-479992eddf9d

26 - The index of the first element in a list is 1, the index of the second element is 2, and so forth.

- a)  True  
b)  False  
 Boş bırak

#: b569d303-6ece-4c3c-95f8-a3d7aa77969f

27 - The index -1 identifies the last element in a list.

- a)  True  
b)  False  
 Boş bırak

#: b430cb88-f551-4a01-92d7-663a852b2539

28 - To calculate the average of the numeric values in a list, the first step is to get the total of values in the list.

- a)  True  
b)  False  
 Boş bırak

#: 3053405f-ef5f-4f87-82f1-150445a95f50

29 - In order to create graphs using the matplotlib package, you need to import the pyplot module.

- a)  True  
b)  False  
 Boş bırak

#: 8b0349b2-8034-4b77-93a0-b73a302a0bae

30 - You cannot use a for loop to iterate over the characters in a string.

- a)  True  
b)  False  
 Boş bırak

#: 82f4086c-b306-41ec-8815-c35379e7cfdd

31 - Indexing works with both strings and lists.

- a)  True
- b)  False
- Boş bırak

#: 59a767ee-434e-47a8-ad72-e9848339f0ca

32 - Indexing of a string starts at 1 so the index of the first character is 1, the index of the second character is 2, and so forth.

- a)  True
- b)  False
- Boş bırak

#: 5c426a61-0596-4726-90a7-533d66680e66

33 - The following code will display 'yes + no':

```
mystr = 'yes'  
yourstr = 'no'  
mystr += yourstr  
print(mystr)
```

- a)  True
- b)  False
- Boş bırak

#: 13e8ad90-cf02-4e88-bb07-e96d409e9193

34 - If the + operator is used on strings, it produces a string that is a combination of the two strings used as its operands.

- a)  True
- b)  False
- Boş bırak

#: 926914ed-79a5-4ec8-999b-df8a29681eae

35 - When accessing each character in a string, such as for copying purposes, you would typically use a while loop.

- a)  True
- b)  False
- Boş bırak

#: d07f9667-8900-4036-9662-a2f1f219a460

Sets are immutable.

- a)  True
- b)  False
- Boş bırak

#: 835273da-7e11-472e-9079-934dbccb5334

37 - A dictionary can include the same value several times but cannot include the same key several times.

- a)  True
- b)  False
- Boş bırak

#: db9d56d7-a323-4067-b26c-d1ea30ce6f78

38 - The difference of set1 and set2 is a set that contains only the elements that appear in set1 but do not appear in set2.

- a)  True
- b)  False
- Boş bırak

#: ac880a68-7bc1-42cb-a528-300f5dcb8b58

39 - The elements in a dictionary are stored in ascending order, by the keys of the key-value pairs.

- a)  True
- b)  False
- Boş bırak

#: c40c645c-2374-4381-8bfa-398aaf500782

40 - The `issubset()` method can be used to determine whether set1 is a subset of set2.

- a)  True
- b)  False
- Boş bırak

#: 9afe1680-1809-47dd-a4b8-9630162172a5

41 - Which of the following is considered to be the world's first programmable electronic computer?



- a)  IBM
- b)  Dell
- c)  ENIAC
- d)  Macintosh
- Boş bırak

#: ff292f1c-0618-4764-aa50-d0b5515fe8bc

42 - Where does a computer store a program and the data that the program is working with while the program is running?

- a)  In main memory
- b)  In the CPU
- c)  In secondary storage
- d)  In the microprocessor
- Boş bırak

#: 05c72967-7a91-4ff4-95b3-10c408bcee8c

43 - What type of volatile memory is usually used only for temporary storage while running a program?

- a)  ROM
- b)  SSD
- c)  RAM
- d)  IBM
- Boş bırak

#: 31781029-fe2d-47d6-bd2a-9145dbf78824

44 - The following is an example of an instruction written in which computer language?

10110000

- a)  Python
- b)  Assembly language
- c)  Java
- d)  Machine language
- Boş bırak

#: 3566ae57-5bf8-4052-98d6-bd5e3dda7b33


What is the largest value that can be stored in one byte?

- a)  255
- b)  128
- c)  8
- d)  65535
- Boş bırak

#: 42bbbe04-9b4a-42af-8971-25f9d6457bd7

46 - What is the decimal value of the following binary number?

10011101

- a)  157 
- b)  8
- ~~c)  156~~
- d)  28
- Boş bırak

#: 7b20205b-b794-42bf-bce4-13b43eec4502

47 - What is the informal language, used by programmers use to create models of programs, that has no syntax rules and is not meant to be compiled or executed?

- a)  Flowchart
- b)  Algorithm
- c)  Source code
- d)  Pseudocode
- Boş bırak

#: adb8cbdd-731e-423a-9426-8aebf903c3c6

48 - The line continuation character is a

- a)  #
- b)  %
- c)  &
- d)  \

Boş bırak

#: 2a6a0e03-e4be-4269-8a30-261b30b6dbd1

49 - Which mathematical operator is used to raise 5 to the second power in Python?

- a)  /
- b)  \*\*
- c)  ^
- d)  ~
- Boş bırak

#: 01fbf9f7-56f6-4e1e-a1be-0bf9806975bd

50 - After the execution of the following statement, the variable price will reference the value \_\_\_\_\_.

```
price = int(68.549)
```

- a)  68
- b)  69
- c)  68.55
- d)  68.6
- Boş bırak

#: 00da804e-e605-45fd-b2ba-ff565e2543e4

51 - What is the output of the following statement, given that value1 = 2.0 and value2 = 12?

```
print(value1 * value2)
```

- a)  24
- b)  value1 \* value2
- c)  24.0
- d)  2.0 \* 12
- Boş bırak

#: 119d2d36-567d-492f-beda-a66b358d9a13

52 - What is the output of the following statement?

```
print('One'  
      'Two'  
      'Three')
```

- a)  One Two Three
- b)  One  
Two  
Three
- c)  OneTwoThree
- d)  Nothing—This statement contains an error.  
 Boş bırak

#: d657984d-3b43-4706-9697-dffe773b8d33

53 - What is the output of the following code?

```
val = 123.456789  
print(f'{val:.3f}')
```

- a)  123
- b)  123.457
- c)  123.456
- d)  123.456789  
 Boş bırak

#: a3232807-f8d2-497d-a7d5-cd5c01230634

54 - When using the \_\_\_\_\_ logical operator, one or both of the subexpressions must be true for the compound expression to be true.

- a)  or
- b)  and
- c)  not
- d)  maybe  
 Boş bırak

#: 0ddedbdd-d62d-4b6a-ac55-727b01e94d92

55 - Which of the following is the correct if clause to determine whether y is in the range 10 through 50, inclusive?

- a)  if  $10 < y$  or  $y > 50$ :
- b)  if  $10 > y$  and  $y < 50$ :
- c)  if  $y \geq 10$  and  $y \leq 50$ :
- d)  if  $y \geq 10$  or  $y \leq 50$ :  
 Boş bırak

56 - What is the result of the following Boolean expression, given that  $x = 5$ ,  $y = 3$ , and  $z = 8$ ?

`not (x < y or z > x) and y < z`

- a)  True
- b)  False
- c)  8
- d)  5
- Boş bırak

#: c2d37ba8-d4d0-446e-a47e-b2b688e6e8af

57 - Which of the following is the correct if clause to determine whether choice is anything other than 10?

- a)  `if choice != 10:`
- b)  `if choice != 10`
- c)  `if choice <> 10:`
- d)  `if not(choice < 10 and choice > 10):`
- Boş bırak

#: a18373f5-a6f6-4696-8a10-7eb6efe9b149

58 - When using the \_\_\_\_\_ logical operator, both subexpressions must be true for the compound expression to be true.

- a)  or
- b)  and
- c)  not
- d)  either or or and
- Boş bırak

#: 7271ffe0-294a-41a1-aff1-a16902653dc0

59 - What are the values that the variable num contains through the iterations of the following for loop?

`for num in range(2, 9, 2):`

- a)  2, 3, 4, 5, 6, 7, 8, 9
- b)  2, 5, 8
- c)  2, 4, 6, 8

- d)  1, 3, 5, 7, 9  
 Boş bırak

#: 8605a485-c893-4d44-8122-a3a5a8b1cfc6

60 - What are the values that the variable num contains through the iterations of the following for loop?

```
for num in range(4):
```

- a)  1, 2, 3, 4  
b)  0, 1, 2, 3, 4  
c)  1, 2, 3  
d)  0, 1, 2, 3  
 Boş bırak

#: 917584ce-61e4-4df5-aa9f-361008840ad7

61 - \_\_\_\_\_ is the process of inspecting data that has been input into a program in order to ensure that the data is valid before it is used in a computation.

- a)  Input validation  
b)  Correcting data  
c)  Data validation  
d)  Correcting input  
 Boş bırak

#: 5d77d1f0-b1df-4470-8160-d9fa3f13aa10

62 - When will the following loop terminate?

```
while keep_going != 999:
```

- a)  when keep\_going refers to a value less than 999  
b)  when keep\_going refers to a value greater than 999  
c)  when keep\_going refers to a value equal to 999  
d)  when keep\_going refers to a value not equal to 999  
 Boş bırak

#: 14fc1877-2cd0-4381-842c-2f7f9b1112f4

63 - What will be displayed after the following code is executed?

```
total = 0
```

```
for count in range(1,4):
```

```
    total += count
```

```
print(total)
```

a)  1

3

6

b)  5

c)  1 4

d)  6

Boş bırak

#: ed7b35bf-dd19-4c45-9be1-9964fd0dadaa

64 - What will be displayed after the following code is executed?

```
count = 4
```

```
while count < 12:
```

```
    print("counting")
```

```
    count = count + 2
```

a)  counting counting counting counting

b)  counting

counting

counting

counting

c)  counting

counting

d)  counting

counting

counting

Boş bırak

#: d8e69168-398f-43e9-921f-3d532e036ca1

65 - What does the following program do?

```
student = 1
```

```
while student <= 3:
```

```
    total = 0
```

```
    for score in range(1, 4):
```

```
        score = int(input("Enter test score: "))
```

```
        total += score
```

```
    average = total/3
```

```
    print("Student ", student, "average: ", average)
```

student += 1

- a)  It accepts 4 test scores for 3 students and outputs the average of the 12 scores.
- b)  It accepts 3 test scores for each of 3 students and outputs the average for each student.
- c)  It accepts 4 test scores for 2 students, then averages and outputs all the scores.
- d)  It accepts one test score for each of 3 students and outputs the average of the 3 scores.
- Boş bırak

#: 22692592-0646-46f1-991e-2eb33fd184c

66 - The Python library functions that are built into the Python \_\_\_\_\_ can be used by simply calling the required function.

- a)  Code
- b)  Compiler
- c)  Linker
- d)  Interpreter
- Boş bırak

#: be08686d-f83a-424c-a3b6-f2d72d1a01f5

67 - Which of the following will assign a random integer in the range of 1 through 50 to the variable number?

- a)  random(1, 50) = number
- b)  number = random.randint(1, 50)
- c)  randint(1, 50) = number
- d)  number = random(range(1, 50))
- Boş bırak

#: 640a92c4-792b-4337-85f6-ccce246917c6a

68 - What will display after the following code is executed?

```
def main():
    print("The answer is", magic(5))

def magic(num):
    answer = num + 2 * 10
    return answer

if __name__ == '__main__':
    main()
```



- a)  70
- b)  25
- c)  100
- d)  The statement will cause a syntax error.
- Boş bırak

#: 798adcb9-7ca0-48a4-9f1f-3dbda6f665a7

69 - What will be the value of the variable list after the following code executes?

```
list = [1, 2, 3, 4]
list[3] = 10
```

- a)  [1, 2, 3, 10]
- b)  [1, 2, 10, 4]
- c)  [1, 10, 10, 10]
- d)  Nothing; this code is invalid
- Boş bırak

#: f620f811-d449-4801-bede-83124d00d53b

70 - What will be the value of the variable list after the following code executes?

```
list = [1, 2]
list = list * 3
```

- a)  [1, 2] \* 3
- b)  [3, 6]
- c)  [1, 2, 1, 2, 1, 2]
- d)  [1, 2], [1, 2], [1, 2]
- Boş bırak

#: a8c92129-f65f-4000-8efa-200e4cf92257