

In the name of Allah
Python homework
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1. _____ control statement repeatedly executes a set of statement.

A. iterative

b. condition

c. All of these

2. deduce the output of the following code.

If False:

Print("And operation")

elif True or False:

print(" or operation")

else:

print("default case")

a. And operation

b. Or operation

c. Default case

d. B and c option

3. predict the output of the following code.

i=1

while True:

if i%2==0:

break

print(i)

i+= 1

a. 1

b. 12

c. 123

d. None

4. which keyword is used to take the control to the beginning of the loop?

- a. exit
- b. break

c. continue

d. none

5. the argument in range() function_____.

Dfgewwqjk

Rejkwfl

c. indicates the difference between every two consecutive numbers in the sequence

d. sdkj dioi rei

6. the symbol that is placed at the end of if condition is

A. ;

B. :

c. &

d. ~

7. what is the keyword that is used to come out of a loop only for that iteration?

a. break

b. return

c. continue

d. if

8. judge the output of the following code snippet

```
For I in range(10):
```

```
    If I ==5:
```

```
        Break
```

```
    Else:
```

```
        Print(i)
```

a. 0 1 2 3 4

b. 0 1 2 3 4 5

c. 0 1 2 3

d. 1 2 3 4 5

9. predict the output of the following code snippet

While True:

 Print(True)

 Break

a. True

b. False

c. None

d. Syntax error

10. the output of the below expression is

>>>10*(1/0).

a. Overflow error

b. Zero division error

c. Name error

d. Type error

11. how many except statement can a try-except block have?

a. zero

b. one

c. more than one

d. more than zero

12. when will the else part of the try-except-else be executed?

a. always

b. when no exception

c. when no exception occurs

d. one exception

13. when is the finally block executed?

a. When an exception occurs

b. when there is no exception

c. only if some condition that has been specified

d. Always

14. the keyword that is not used as an exception handling in python?

a. try

b. except

c. accept

d. finally

15. an exception is

a. A object

b. A special function

c. a special module

d. a module

16. the set of statement that will be execute whether an exception is thrown or not?

a. except

b. else

c. finally

d. assert

17. predict the output of the following code snippet.

A. syntax error

b. logical error

c. run-time error

d. none of these

18. gauge the output of the following starment?

```
Int("65.43")
```

A import error

B. value error

C . type error

e. Name error

19. The error that is not a standard exception in Python.

a. Name Error

b. Assignment Error

c. IO Error

d. Value Error

20. The function that generates a sequence of numbers which can be iterated through using for loop.

a. input()

b. range()

c. list()

d. raw_input()

21. What is the output of the following code snippet?

```
x = 'abcd'
```

```
for i in x:
```

```
    print(i)
```

a. abcd

b. 0 1 2 3

c. iiii

d. Traceback

review questions

22. The function of while loop is

a. Repeat a chunk of code a given number of times.

b. Repeat a chunk of code until a condition is true.

c. Repeat a chunk of code until a condition is false. d. Repeat a chunk of code indefinitely.

Review question

1. Briefly explain the conditional statements available in Python.

2. Explain the syntax of for loop with an example.

3. What is the purpose of using break and continue?

4. Differentiate the syntax of if...else and if...elif...else with an example.

5. Explain the use of range() function with an example.

6. Why would you use a try-except statement in a program?
 7. Explain the syntax of while loop with an example.
 8. Differentiate between syntax error and an exception.
 9. Explain the syntax of the try-except-finally block.
 10. Write a program to read the Richter magnitude value from the user and display the result for the following conditions using if...elif...else statement.
 11. Write a program to display Pascal's triangle.
 12. Write a program to display the following pattern using nested loops.
- | | |
|-------|-------|
| 1 | 1 |
| 22 | 21 |
| 333 | 321 |
| 4444 | 4321 |
| 55555 | 54321 |
13. Write a program that uses a while loop to add up all the even numbers between 100 and 200.
 14. Write a program to print the sum of the following series
 - a. $1 + \frac{1}{2} + \frac{1}{3} + \dots + \frac{1}{n}$
 - b. $\frac{1}{1} + \frac{2}{2} + \frac{3}{3} + \dots + \frac{n}{n}$
 15. Write a program to find the depreciation value of an asset(property) by reading the purchase value of the asset (amt), year of the service (year) and the value of depreciation.

جواب ۱. در پایتون دستور های شرطی برای تصمیم گیری بر اساس شرایط استفاده می شود. مانند:

If . برای بررسی یک شرط

elif . برای شرط های اضافی اگر شرط قبلی درست نبود

else. برای اجرای کد وقتی هیچ کدام از شرط های قبلی درست نباشد

جواب ۲. حلقه For برای تکرار یک بلوک کد در یک توالی (مثل لیست رشته یا range) استفاده می شود