

SINHGAD COLLEGE OF ENGINEERING  
Department of Information Technology  
Programming and Problem Solving (110005)  
UNIT-II- Decision Control Statements  
Multiple choice questions Bank

Content:

**Decision Control Statements:** Decision control statements, **Selection/conditional** branching Statements: if, if-else, nested if, if-elif-else statements. **Basic loop** Structures/Iterative statements: while loop, for loop, selecting appropriate loop. Nested loops, The break, continue, pass, else statement used with loops. Other data types- Tuples, Lists and Dictionary.

1. Which of the following is not used as loop in Python?

- A. for loop
- B. while loop
- C. do-while loop
- D. None of the above

Answer: C

2. Which of the following is False regarding loops in Python?

- A. Loops are used to perform certain tasks repeatedly.
- B. While loop is used when multiple statements are to executed repeatedly until the given condition becomes False
- C. While loop is used when multiple statements are to executed repeatedly until the given condition becomes True.
- D. for loop can be used to iterate through the elements of lists.

Answer: B

3. Which of the following is True regarding loops in Python?

- A. Loops should be ended with keyword "end".
- B. No loop can be used to iterate through the elements of strings.
- C. Keyword "break" can be used to bring control out of the current loop.
- D. Keyword "continue" is used to continue with the remaining statements inside the loop.

Answer: C

4. How many times will the loop run?

```
i=2
while(i>0):
    i=i-1
```

- A. 2
- B. 3
- C. 1
- D. 0

Answer: A

5. What will be the output of the following Python code?

```
list1 = [3 , 2 , 5 , 6 , 0 , 7, 9]
sum = 0
sum1 = 0
for elem in list1:
    if (elem % 2 == 0):
        sum = sum + elem
        continue
    if (elem % 3 == 0):
        sum1 = sum1 + elem
print(sum , end=" ")
print(sum1)
```

- A. 8 9
- B. 8 3
- C. 2 3
- D. 8 12

Answer: D

6. Which one of the following is a valid Python if statement

- A. if a>=2 :
- B. if (a >= 2)
- C. if (a => 22)
- D. if a >= 22

Answer: A

7. What keyword would you use to add an alternative condition to an if statement?

- A. else if
- B. elseif
- C. elif
- D. None of the above

Answer: C

8. Can we write if/else into one line in python?

- A. Yes
- B. No
- C. if/else not used in python
- D. None of the above

Answer: A

9. In a Python program, a control structure:

- A. Defines program-specific data structures
- B. Directs the order of execution of the statements in the program

C. Dictates what happens before the program starts and after it terminates

D. None of the above

**Answer: B**

10. What will be output of this expression?

```
'p' + 'q' if '12'.isdigit() else 'r' + 's'
```

A. pq

B. rs

C. pqrs

D. pq12

**Answer: A**

11. Which statement will check if a is equal to b?

A. if a = b:

B. if a == b:

C. if a === c:

D. if a == b

**Answer: B**

12. Does python have switch-case statement?

A. True

B. False

C. Python has switch statement but we cannot use it.

D. None of the above

**Answer: B**

13. What will be the output of given Python code?

```
n=7
```

```
c=0
```

```
while(n):
```

```
    if(n>5):
```

```
        c=c+n-1
```

```
        n=n-1
```

```
    else:
```

```
        break
```

```
print(n)
```

```
print(c)
```

A. 2

B. 6 5 2

C. 3

D. 5 2

**Answer: A**

14. What will be the output of given Python code?

```
str1="hello"
c=0
for x in str1:
    if(x!="l"):
        c=c+1
    else:
        pass
print(c)
```

- A. 2
- B. 0
- C. 4
- D. 3

**Answer: D**

15. Which of the following Python code will give different output from the others?

- A. for i in range(0,5):  
print(i)
- B. for j in [0,1,2,3,4]:  
print(j)
- C. for k in [0,1,2,3,4,5]:  
print(k)
- D. for l in range(0,5,1):  
print(l)

**Answer: C**

16. What will be the output of the following Python code?

```
str1="learn python"
str2=""
str3=""
for x in str1:
    if(x=="r" or x=="n" or x=="p"):
        str2+=x
    pass
    if(x=="r" or x=="e" or x=="a"):
        str3+=x
print(str2,end=" ")
print(str3)
```

- A. rnpn ea
- B. rnpn ear
- C. rnp ea
- D. rnp ear

**Answer: B**

17. What will be the output of the following Python code?

```
for i in range(0,2,-1):
    print("Hello")
```

- A. Hello
- B. Hello Hello
- C. No Output
- D. Error

Answer: C

18. Which of the following is a valid for loop in Python?

- A. for(i=0; i < n; i++)
- B. for i in range(0,5):
- C. for i in range(0,5)
- D. for i in range(5)

Answer: B

19. Which of the following sequences would be generated by the given line of code?  
range(5, 0, -2)

- A. 5 4 3 2 1 0 -1
- B. 5 4 3 2 1 0
- C. 5 3 1
- D. None of the above

Answer: C

20. A while loop in Python is used for what type of iteration?

- A. indefinite
- B. discriminant
- C. definite
- D. indeterminate

Answer: A

21. When does the else statement written after loop executes?

- A. When break statement is executed in the loop
- B. When loop condition becomes false
- C. Else statement is always executed
- D. None of the above

Answer: B

22. What will be the output of the following code?

```
x = "abcdef"
i = "i"
while i in x:
    print(i, end=" ")
```

- A. a b c d e f
- B. abcdef
- C. i i i i i.....
- D. No Output

Answer: D

23. What will be the output of the following code?

```
x = "abcd"  
for i in range(len(x)):  
    print(i)
```

- A. abcd
- B. 0 1 2 3
- C. 1 2 3 4
- D. a b c d

**Answer: B**

24. What will be the output of the following code?

```
x = 12  
for i in x:  
    print(i)
```

- A. 12
- B. 1 2
- C. Error
- D. None of the above

**Answer: C**

25. What does the following code print to the console?

```
if 2 == 2:  
    print("ice cream is tasty!")
```

- A. No output
- B. ice cream
- C. "ice cream is tasty!"
- D. None of the above

**Answer: C**

26. What does the following code print to the console?

```
if "cat" == "dog":  
    print("prrrr")  
else:  
    print("ruff")  
"ruff" is printed.
```

- A. prrrr
- B. ruf
- C. prrrruff
- D. None of the above

**Answer: B**

27. What does the following code print to the console?

```
if 5 > 10:  
    print("fan")  
elif 8 != 9:  
    print("glass")  
else:  
    print("cream")  
"glass" is printed.
```

- A. fan
- B. cream
- C. glass
- D. None of the above

Answer: C

28. What does the following code print to the console?

```
name = "maria"  
if name == "melissa":  
    print("usa")  
elif name == "mary":  
    print("ireland")  
else:  
    print("colombia")
```

- A. ireland
- B. maria
- C. usa
- D. colombia

Answer: D

29. What does the following code print to the console?

```
if 88 > 100:  
    print("cardio")
```

- A. error
- B. cardio
- C. No output
- D. None of the above

Answer: C

30. What does the following code print to the console?

```
hair_color = "blue"  
if 3 > 2:  
    if hair_color == "black":  
        print("You rock!")  
    else:  
        print("Boring")
```

- A. Boring
- B. You rock!
- C. black
- D. None of the above

Answer: A

31. What does the following code print to the console?

```
if True:  
    print(101)  
else:  
    print(202)
```

- A. 201
- B. 101201
- C. 101
- D. error

Answer: C

32. What does the following code print to the console?

```
if False:  
    print("Nissan")  
elif True:  
    print("Ford")  
elif True:  
    print("BMW")  
else:  
    print("Audi")  
"Ford" is printed
```

- A. BMW
- B. Ford
- C. Nissan
- D. Audi

Answer: B

33. What does the following code print to the console?

```
if 0:  
    print("huh?")  
else:  
    print("0 is falsy!")  
0 is falsy is printed.
```

- A. huh?
- B. 0 is falsy
- C. huh? 0 is falsy
- D. No Output

Answer: B

34. What does the following code print?

```
if 4 + 5 == 10:  
    print("TRUE")  
else:  
    print("FALSE")  
print("TRUE")
```



- A. TRUE
- B.  
TRUE  
FALSE
- C.  
FALSE  
TRUE
- D.  
TRUE  
FALSE  
TRUE

Answer: A

35. Which of the following is true about the code below?

```
x = 3
if (x > 2):
    x = x * 2;
if (x > 4):
    x = 0;
print(x)
```

- A. x will always equal 0 after this code executes for any value of x
- B. if x is greater than 2, the value in x will be doubled after this code executes
- C. if x is greater than 2, x will equal 0 after this code executes
- D. None of the Above

Answer: C

36. What is the total for 12 items that weigh 3 pounds?

```
weight = 0.5
numItems = 5
if weight < 1:
    price = 1.45
if weight >= 1:
    price = 1.15
total = weight * price
if numItems >= 10:
    total = total * 0.9
print(weight)
print(price)
print(total)
```

- A. \$3.45
- B. \$3.11
- C. \$3.105
- D. \$3.10

Answer: C

37. Given two variables, num1 and num2, which of the following would mean that both num1 and num2 are positive integers?

- A. (num1 = num2)
- B. (num1 = num2) OR (num1 ≠ num2)
- C. (num1 = num2) AND (num1 < 0)
- D. (num1 = num2) AND (num2 > 0)

Answer: D

38. What will be the output of the following Python code?

```
x = ['ab', 'cd']
for i in x:
    x.append(i.upper())
print(x)
```

- A. ['AB', 'CD']
- B. ['ab', 'cd', 'AB', 'CD']
- C. ['ab', 'cd']
- D. none of the mentioned

Answer: D

39. What will be the output of the following Python code?

```
i = 1
while True:
    if i%3 == 0:
        break
    print(i)
    i += 1
```

- A. 1 2
- B. 1 2 3
- C. error
- D. none of the mentioned

Answer: C

40. What will be the output of the following Python code?

```
i = 1
while True:
    if i%007 == 0:
        break
    print(i)
    i += 1
```

- A. 1 2 3 4 5 6
- B. 1 2 3 4 5 6 7
- C. error
- D. none of the mentioned

Answer: A

41. What will be the output of the following Python code?

```
True = False
while True:
    print(True)
    break
```

- A. True
- B. False
- C. None
- D. none of the mentioned

Answer: D

42. What will be the output of the following Python code?

```
i = 0
while i < 3:
    print(i)
    i += 1
else:
    print(0)
```

- A. 0 1 2 3 0
- B. 0 1 2 0
- C. 0 1 2
- D. error

Answer: B

43. What will be the output of the following Python code?

```
x = "abcdef"
i = "a"
while i in x:
    print('i', end = " ")
```

- A. no output
- B. i i i i i ...
- C. a a a a a ...
- D. a b c d e f

Answer: B

44. What will be the output of the following Python code?

```
x = "abcdef"
i = "a"
while i in x:
    x = x[:-1]
    print(i, end = " ")
```

- A. i i i i i
- B. a a a a a a
- C. a a a a a
- D. none of the mentioned

Answer: B

45. What will be the output of the following Python code?

```
x = "abcdef"
i = "a"
while i in x:
    x = x[1:]
    print(i, end = " ")
```

- A. a a a a a a
- B. a
- C. no output
- D. error

**Answer: B**

46. What will be the output of the following Python code?

```
x = "abcdef"
i = "a"
while i in x[1:]:
    print(i, end = " ")
```

- A. a a a a a a
- B. a
- C. no output
- D. error

**Answer: C**

47. What will be the output of the following Python code?

```
x = 'abcd'
for i in x:
    print(i)
    x.upper()
```

- A. a B C D
- B. a b c d
- C. A B C D
- D. error

**Answer: B**

48. What will be the output of the following Python code?

```
x = 'abcd'
for i in x:
    print(i.upper())
```

- A. a b c d
- B. A B C D
- C. a B C D
- D. error

**Answer: B**

49. What will be the output of the following Python code?

```
x = 'abcd'
for i in range(x):
    print(i)
```

- A. a b c d
- B. 0 1 2 3
- C. error
- D. none of the mentioned

**Answer: C**

50. What will be the output of the following Python code?

```
x = 'abcd'  
for i in range(len(x)):  
    print(i)
```

- A. a b c d
- B. 0 1 2 3
- C. error
- D. 1 2 3 4

**Answer: B**