

## Module 5: Python Control Statements

Python provides the following options:

- ☐ if statement
- ☐ if else statement
- ☐ if elif else statement
- ☐ while statement
- ☐ for statement

## Module 5: Python Control Statements Test:

Q1)

```
even = False
if even = True:
    print("It is even!")
```

Options:

- A. The program has a syntax error in line 1 (`even = False`)
- B. The program has a syntax error in line 2 `if even = True` is not a correct condition. It should be replaced by `if even == True:` or `if even:`.
- C. The program runs, but displays nothing.
- D. The program runs and displays `It is even!`

Solution:

Q2) Suppose income is 4001, what will be displayed by the following code?

```
if income > 3000:
    print("Income is greater than 3000")
elif income > 4000:
    print("Income is greater than 4000")
```

Options:

- A. Income is greater than 3000
- B. Income is greater than 3000 followed by Income is greater than 4000
- C. Income is greater than 4000
- D. Income is greater than 4000 followed by Income is greater than 3000

Solution:

Q3) You are designing a decision structure to convert a student's numeric grade to a letter grade. The program must assign a letter grade as specified in the following table:

Percentage range	Letter grade
90 through 100	A
80 through 89	B
70 through 79	C
65 through 69	D
0 through 64	F

For example, if the user enters a 90, the output should be, "Your letter grade is A." Likewise, if a user enters an 89, the output should be "Your letter grade is B."

How should you complete the code? To answer, select the appropriate code segments in the answer area.

```
#Letter Grade converter
grade = int(input("Enter a numeric grade"))
[Option1] _____
           letter_grade = 'A'
[Option2] _____
           letter_grade = 'B'
[Option3] _____
           letter_grade = 'C'
[Option4] _____
           letter_grade = 'D'
else:
    letter_grade = 'F'
print("Your letter grade is :", letter_grade)
```

Options:

Option1: A. if grade <= 90: C. elif grade > 90:	B. if grade >= 90: D. elif grade >= 90:	Option2: A. if grade > 80: C. elif grade > 80:	B. if grade >= 80: D. elif grade >= 80:
Option3: A. if grade > 70: C. elif grade > 70:	B. if grade >= 70: D. elif grade >= 70:	Option4: A. if grade > 65: C. elif grade > 65:	B. if grade >= 65: D. elif grade >= 65:

**Solution:**

Q4) What is the output of the code shown below?

```
if (9 < 0) and (0 < -9):  
    print("hello")  
elif (9 > 0) or False:  
    print("good")  
else:  
    print("bad")
```

Options:

- a) error
- b) hello
- c) good
- d) bad

Solution:

Q5) You are writing a Python Practice Test program to ask the user to enter a number and determine if the number is 1 digit 2 digits, or more than 2 digits long. You need to write the program. How should you complete the code? To answer, select the appropriate code segments in the answer area.

```
num = int(input("Enter a number with 1 or 2 digits: "))  
digits = 0;  
[Option1] _____  
           digits = "1"  
[Option2] _____  
           digits = 2  
[Option3] _____  
           digits = ">2"  
print(digits + " digits.")
```

Options:

[Option1]

A. if num > -10 and num < 10:

B. if num > -100 and num < 100:

[Option2]

A. if num > -100 and num < 100:

B. elif num > -100 and num < 100:

C. if num > -10 and num < 10:

D. elif num > -10 and num < 10:

[Option3]

A. else:

B. elif:

Solution:

Q6) How many times will the following code print "Welcome to Python"?

```
count = 0
while count < 10:
    print("Welcome to Python")
```

Options:

- A. 9
- B. 10
- C. 11
- D. infinite number of times

Solution:

Q7) What will be displayed when the following code is executed?

```
number = 6
while number > 0:
    number -= 3
    print(number, end = ' ')
```

Options:

- A. 6 3 0
- B. 6 3
- C. 3 0
- D. 3 0 -3

Solution:

Q8) What is the output of the following?

```
i = 1
while True:
    if i%2 == 0:
        break
    print(i, end = ' ')
    i += 2
```

Options:

- a) 1
- b) 1 2
- c) 1 2 3 4 5 6 ...
- d) 1 3 5 7 9 11 ...

Solution:

Q9) A classmate has asked you to debug the following code:

```
x = 4
while x >= 1:
    if x % 4 == 0:
        print("party", end=' ')
    elif x - 2 < 0:
        print("cake", end=' ')
    elif x / 3 == 0:
        print("greeting", end=' ')
    else:
        print("birthday", end=' ')
    x = x - 1
```

What is the output that is printed to the screen?

Options:

- A. birthday party greeting cake
- B. party birthday birthday cake
- C. party greeting birthday cake
- D. birthday greeting party cake

Solution:

Q10) What is the output of the following?

```
for i in range(2.0):
    print(i)
```

Options:

- a) 0.0 1.0
- b) 0 1
- c) error
- d) none of the mentioned

Solution:

Q11) The following loop displays \_\_\_\_\_.

```
for i in range(1, 11):
    print(i, end = " ")
```

Options:

- A. 1 2 3 4 5 6 7 8 9
- B. 1 2 3 4 5 6 7 8 9 10
- C. 1 2 3 4 5
- D. 1 3 5 7 9

Solution: