

You can find multiple choice review questions in D2L under: **Assessments->Quizzes**

For all questions, unless otherwise specified assume that there are no syntax errors in any programs or program fragments.

Short answer 1 (code writing):

The program prompts the user for an identification number which must be somewhere within this range 111111 to 999999. If the number is too low then the program should indicate that the number needs to be higher. The reverse applies if the number is too high. The process of prompting and displaying the appropriate error message will continue until a valid ID has been entered whereby the program will echo back the valid identification number to the user.

Short answer 2 (code writing):

Write a program similar to the solution for the previous question but you are to augment it to allow the user to skip the entry of the identification number if the special code (-1) has been entered. When this code has been entered the error message that indicates that the number is too low should not appear. Otherwise this program should be same as the previous one.

Short answer 3 (code trace):

Specify the output of the following program:

```
i = 1
j = 1
for i in range (1, 4, 1):
    for j in range (5, 1, -1):
        print(i,j)
```

Short answer 4 (code trace):

Specify the output of the following program:

```
i = 0
while (i < 3):
    j = 1
    while (j <= 4):
        print(i, j)
        j = j + 1
    i = i + 1
```

Short answer 5 (code trace, code analysis):

What does the following program do? What is the relationship between the values stored in 'x', 'y' and 'j'?

```
i = 1
x = random.randrange(2,6)
y = random.randrange(2,11)
j = x
while (i < y):
    j = j * x
    i = i + 1
```