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Exam : **98-381**

Title : Introduction to Programming
Using Python

Vendor : Microsoft

Version : DEMO

NO.1 This question requires that you evaluate the underlined text to determine if it is correct.

You write the following code:

```
import sys
try:
    file_in = open("in.txt", 'r')
    file_out = open("out.txt", 'w+')
except IOError:
    print('cannot open', file_name)
else:
    i = 1
    for line in file_in:
        print(line.rstrip())
        file_out.write("line " + str(i) + ": " + line)
        i = i + 1
    file_in.close()
    file_out.close()
```

The out.txt file does not exist. You run the code. The code will execute without error.

Review the underlined text. If it makes the statement correct, select "No change is needed". If the statement is incorrect, select the answer choice that makes the statement correct.

- A. No change is needed
- B. The code runs, but generates a logic error
- C. The code will generate a runtime error
- D. The code will generate a syntax error

Answer: D

Explanation:

References:

<https://docs.python.org/2/library/exceptions.html>

NO.2 You are creating a Python program that shows a congratulation message to employees on their service anniversary.

You need to calculate the number of years of service and print a congratulatory message.

You have written the following code. Line numbers are included for reference only.

```
01 start = input("How old were you on your start date?")
02 end = input("How old are you today?")
03
```

You need to complete the program.

Which code should you use at line 03?

- A. `print("Congratulations on" + (int(end)-int(start)) + "years of service!")`
- B. `print("Congratulations on" + str(int(end)-int(start)) + "years of service!")`
- C. `print("Congratulations on" + int(end - start) + "years of service!")`
- D. `print("Congratulations on" + str(end - start)) + "years of service!"`

Answer: A

Explanation:

NO.3 HOTSPOT

You are developing a Python application for an online game.

You need to create a function that meets the following criteria:

The function is named `update_score`

The function receives the current score and a value

The function adds the value to the current score

The function returns the new score

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

Answer Area

```
update_score
def update_score
return update_score
```

```
(current, value):
():
(current, value)
()
```

```
pass current
return current
return
pass
```

Answer:

Answer Area

```
update_score
def update_score
return update_score
```

```
current, value)
():
(current, value)
()
```

```
pass current
return current
return
pass
```

References:

<https://www.w3resource.com/python/python-user-defined-functions.php>

NO.4 HOTSPOT

You are writing a Python program to validate employee numbers.

The employee number must have the format ddd-dd-dddd and consist only of numbers and dashes.

The program must print True if the format is correct and print False if the format is incorrect.

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

Answer Area

```
Employee_number = ""
Employee_number = "sentinel"
```

parts = ""

```
while employee_number != "":
while employee_number != "sentinel":
```

```
valid = False
valid = True
```

```
employee_number = input("Enter employee number (ddd-dd-dddd): ")
parts = employee_number.split('-')
```

```
if len(parts) == 3:
```

```
    if len(parts[0]) == 3 and len(parts[1]) == 2 and len(parts[2]) == 4:
```

```
        if parts[0].isdigit() and parts[1].isdigit() and parts[2].isdigit():
```

```
            print(valid)
```

```
valid = False
valid = True
```

Answer:

Answer Area

```
Employee_number = ""  
Employee_number = "sentinel"
```

```
parts = ""
```

```
while employee_number != "":  
while employee_number != "sentinel":
```

```
valid = False  
valid = True
```

```
employee_number = input("Enter employee number (ddd-dd-dddd): ")  
parts = employee_number.split('-')
```

```
if len(parts) == 3:
```

```
    if len(parts[0]) == 3 and len(parts[1]) == 2 and len(parts[2]) == 4:
```

```
        if parts[0].isdigit() and parts[1].isdigit() and parts[2].isdigit():
```

```
print(valid)
```

```
valid = False  
valid = True
```