

Bài Tập môn kĩ thuật lập trình

Chương 6:

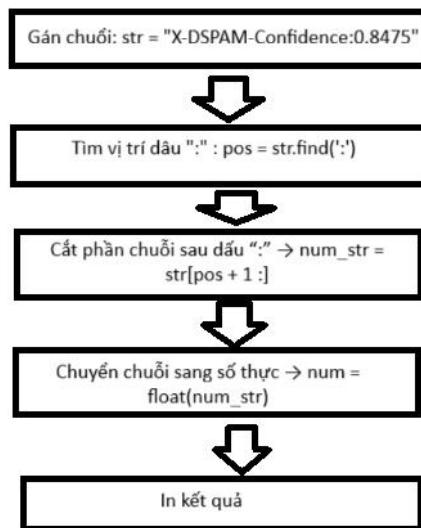
Bài 1: Take the following Python code that stores a string:

```
1 str = 'X-DSPAM-Confidence:0.8475'
2
3 # Tìm vị trí của dấu hai chấm
4 colon_pos = str.find(':')
5
6 # Cắt chuỗi sau dấu hai chấm (cộng 1 để bỏ qua dấu ':')
7 number_str = str[colon_pos + 1 :]
8
9 # Chuyển chuỗi thành số thực
10 number = float(number_str)
11
12 print(number)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

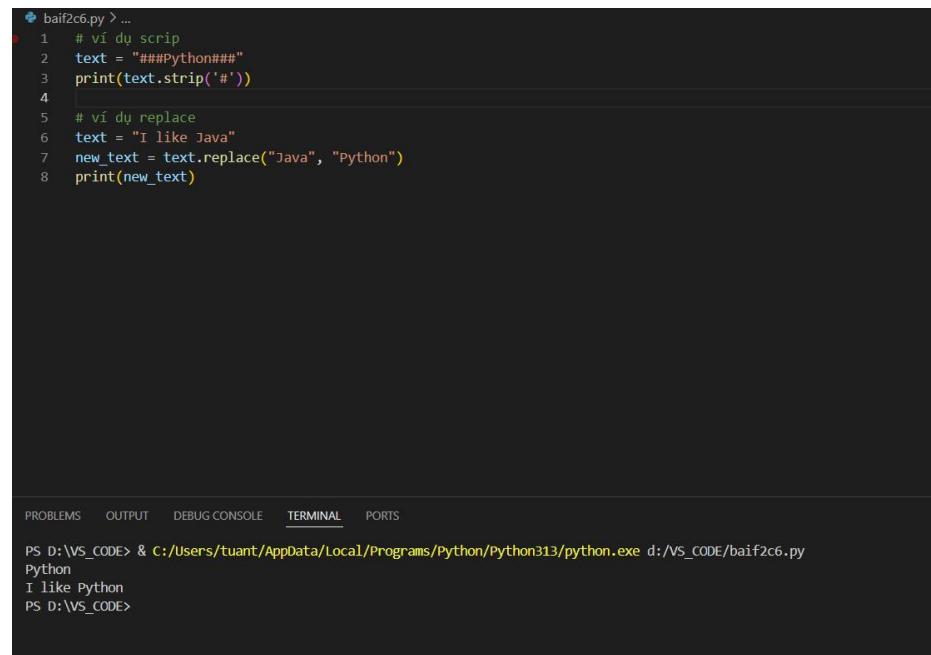
```
PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe d:/VS_CODE/baif1c6..py
0.8475
PS D:\VS_CODE>
```

Lưu đồ giải thuật:



Bài 2: Read the documentation of the string methods at:

You might want to experiment with some of these methods to understand how they work. The strip and replace methods are particularly useful. The documentation uses a syntax that might seem confusing.



The screenshot shows a terminal window with the following content:

```
baif2c6.py > ...
1 # vi du script
2 text = "###Python###"
3 print(text.strip('#'))
4
5 # vi du replace
6 text = "I like Java"
7 new_text = text.replace("Java", "Python")
8 print(new_text)
```

Below the code, the terminal interface shows:

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe d:/VS_CODE/baif2c6.py

Python

I like Python

PS D:\VS_CODE>

Chương 7:

Bài 1: Write a program to read through a file and print the contents of the file (line by line) in upper case.

Executing the program should look as follows:

```

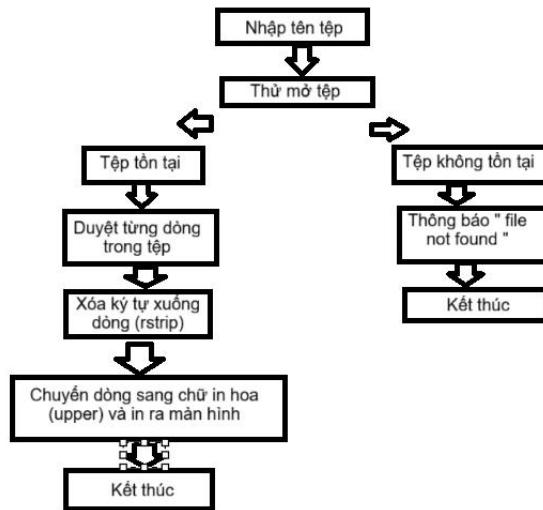
baif1c7.py > ...
1  fname = input("Enter a file name: ")
2  try:
3      fhand = open(fname)
4  except:
5      print("File not found")
6      quit()
7
8  for line in fhand:
9      line = line.rstrip()
10     print([line.upper()])

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe d:/vs_CODE/baif1c7.py
Enter a file name: []

Lưu đồ giải thuật:



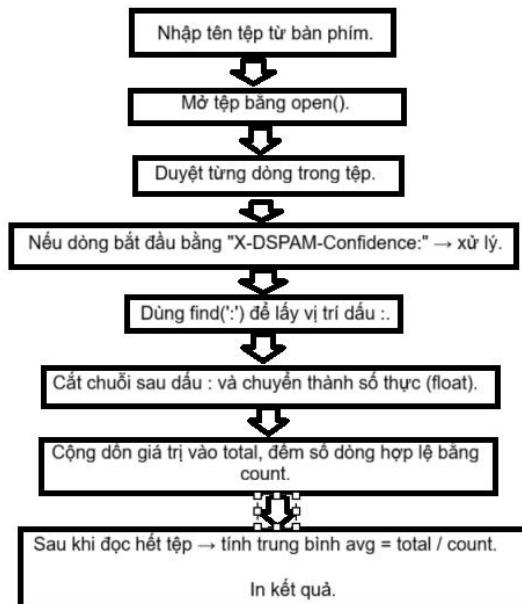
Bài 2: Write a program to prompt for a file name, then read through the file and look for lines of the following form:

```

1  fname = input("Enter file name: ")
2  try:
3      fhand = open(fname)
4  except:
5      print("File not found")
6      quit()
7
8  count = 0
9  total = 0.0
10
11 for line in fhand:
12     if line.startswith("X-DSPAM-Confidence:"):
13         pos = line.find(':')
14         value = float(line[pos+1:].strip())
15         total += value
16         count += 1
17
18 if count > 0:
19     avg = total / count
20     print("Average spam confidence:", avg)
21 else:
22     print("No X-DSPAM-Confidence lines found.")

```

Lưu đồ giải thuật:



Bài 3: Sometimes when programmers get bored or want to have some fun, they add a harmless *Easter Egg* to their program. Modify the program that prompts the user for a file name so that it prints a funny message when the user types the exact file name "**na na boo boo**".

```

❷ baif3c7.py > ...
1  fname = input("Enter the file name: ")
2
3  # Kiểm tra xem người dùng có nhập 'na na boo boo' không
4  v if fname.lower() == 'na na boo boo':
5      print("NA NA BOO BOO TO YOU - You have been punk'd!")
6      quit()
7
8  # Nếu không, thử mở tệp
9 v try:
10    fhand = open(fname)
11 v except:
12    print("File cannot be opened:", fname)
13    quit()
14
15 # Đếm số dòng bắt đầu bằng "Subject:"
16 count = 0
17 v for line in fhand:
18    if line.startswith('Subject:'):
19        count += 1
20
21 print("There were", count, "subject lines in", fname)

```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
 PS D:\VS_CODE> & C:/Users/tuant/AppData/Local/Programs/Python/Python313/python.exe d:/VS_CODE/baif3c7.py
 Enter the file name: na na boo boo
 NA NA BOO BOO TO YOU - You have been punk'd!
 PS D:\VS_CODE>

Lưu đồ giải thuật

