

## Bài Tập môn kĩ thuật lập trình

### Chương 6:

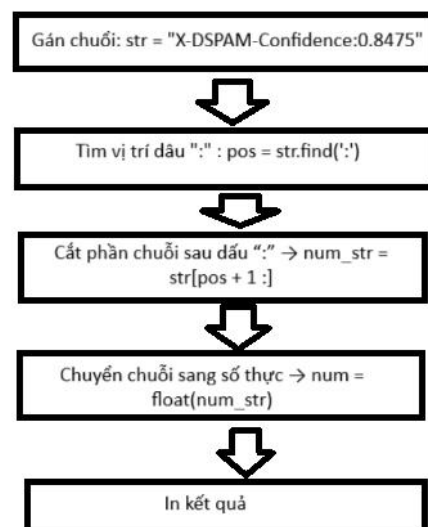
Bài 1: Take the following Python code that stores a string:

```
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)
```

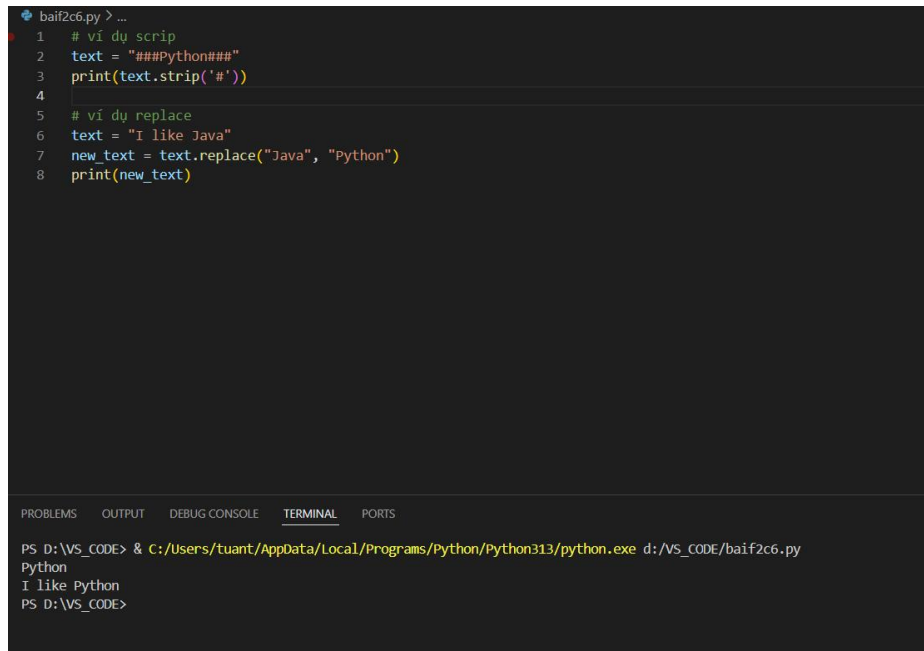
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

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.



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

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:

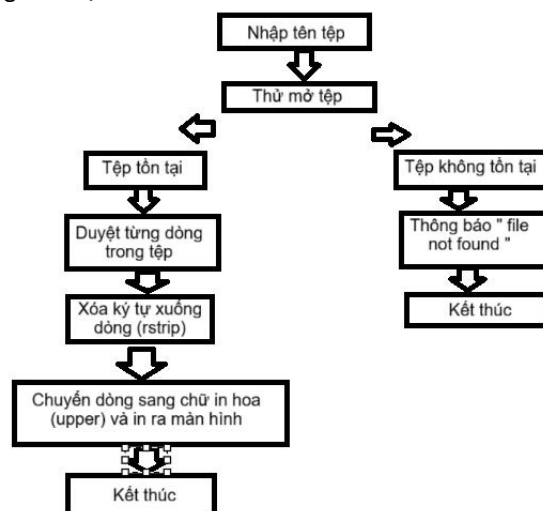
Bài 1: Write a program to read through a file and print the contents of the file (line by line) in upper case.  
Executing the program should look as follows:

```
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:



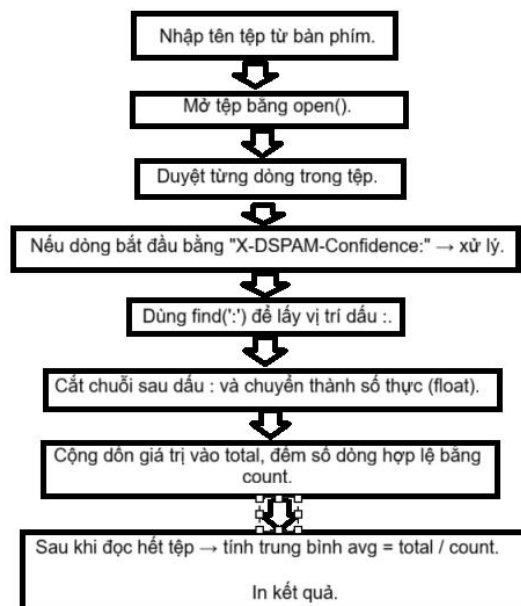
Bài 2: Write a program to prompt for a file name, then read through the file and look for lines of the following form:

```

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"**.

```
baif3c7.py > ...
1  fname = input("Enter the file name: ")
2
3  # Kiểm tra xem người dùng có nhập 'na na boo boo' không
4  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  try:
10     fhand = open(fname)
11 except:
12     print("File cannot be opened:", fname)
13     quit()
14
15 # Đếm số dòng bắt đầu bằng "Subject:"
16 count = 0
17 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

