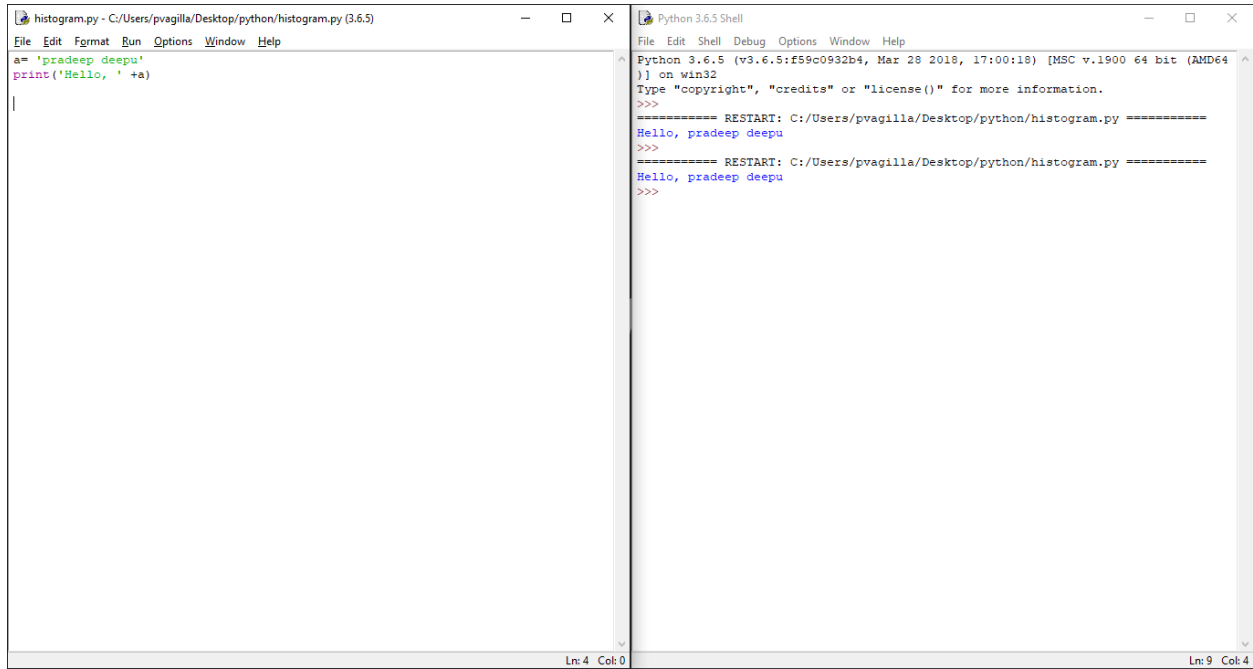


PYTHON LAB SOLUTIONS:

Day-1

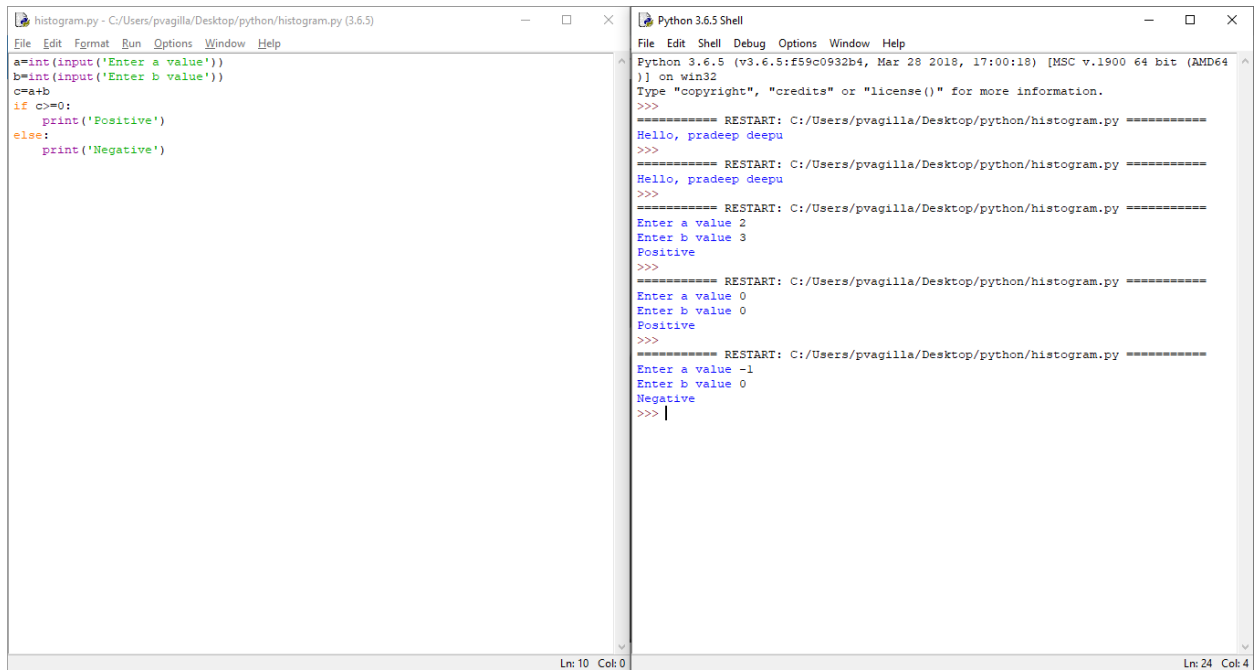
1.



```
histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)
File Edit Format Run Options Window Help
a= 'pradeep deepu'
print('Hello, ' +a)
|

Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
Hello, pradeep deepu
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
Hello, pradeep deepu
>>>
```

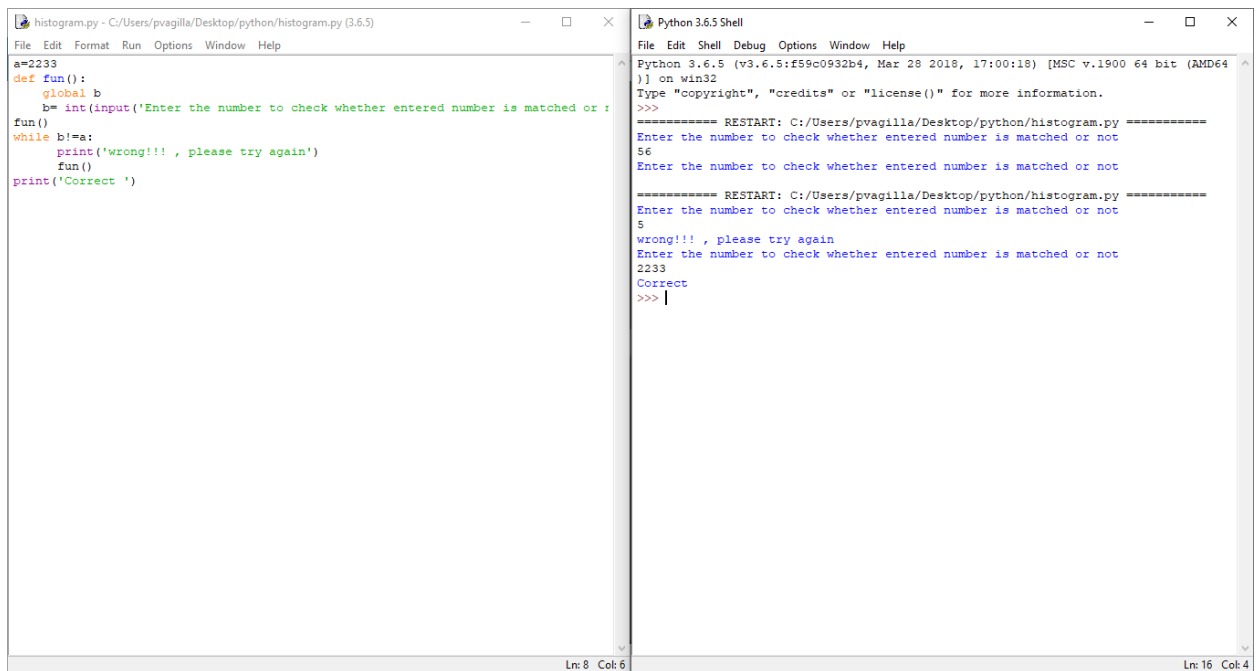
2.



```
histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)
File Edit Format Run Options Window Help
a=int(input('Enter a value'))
b=int(input('Enter b value'))
c=a+b
if c>=0:
    print('Positive')
else:
    print('Negative')
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
>>>
Hello, pradeep deepu
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
>>>
Hello, pradeep deepu
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
>>>
Enter a value 2
Enter b value 3
Positive
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
>>>
Enter a value 0
Enter b value 0
Positive
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
>>>
Enter a value -1
Enter b value 0
Negative
>>> |
```

3.



```
histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)
File Edit Format Run Options Window Help
a=2233
def fun():
    global b
    b= int(input('Enter the number to check whether entered number is matched or not '))
fun()
while b!=a:
    print('Wrong!!! , please try again')
    fun()
print('Correct ')
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
>>>
Enter the number to check whether entered number is matched or not
56
Enter the number to check whether entered number is matched or not
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
>>>
Enter the number to check whether entered number is matched or not
5
wrong!!! , please try again
Enter the number to check whether entered number is matched or not
2233
Correct
>>> |
```

4.

The screenshot shows a Python IDE with two windows. The left window, titled 'histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)', contains the following code:

```
first_name=input('Enter your first_name\n')
last_name=input('Enter your last_name\n')
whole_name='{}'.format(first_name,last_name)
print(whole_name)
```

The right window, titled 'Python 3.6.5 Shell', shows the execution of the script. It displays the prompt 'Enter your first_name' followed by the input 'pradeep', then 'Enter your last_name' followed by the input 'goud', and finally the output 'pradeepgoud'.

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
Enter your first_name
pradeep
Enter your last_name
goud
pradeepgoud
>>> |
```

5.

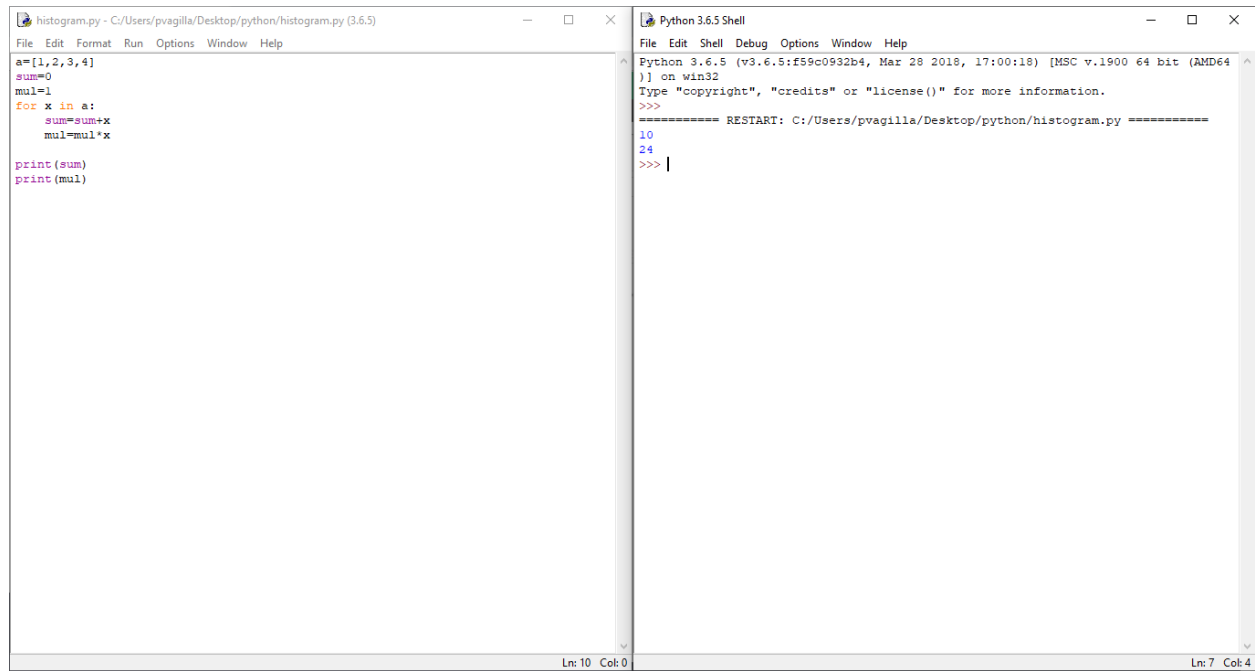
The screenshot shows a Python IDE with two windows. The left window, titled 'histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)', contains the following code:

```
str=input('Enter a String\n')
togglestr=str.swapcase()
print(togglestr)
```

The right window, titled 'Python 3.6.5 Shell', shows the execution of the script. It displays the prompt 'Enter a String' followed by the input 'Hello, How Are You?', and then the output 'hELLO, hOW aRE yOU?'.

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
Enter a String
Hello, How Are You?
hELLO, hOW aRE yOU?
>>> |
```

6.



The screenshot shows a Python IDE with two windows. The left window, titled 'histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)', contains the following code:

```
a=[1,2,3,4]
sum=0
mul=1
for x in a:
    sum=sum+x
    mul=mul*x

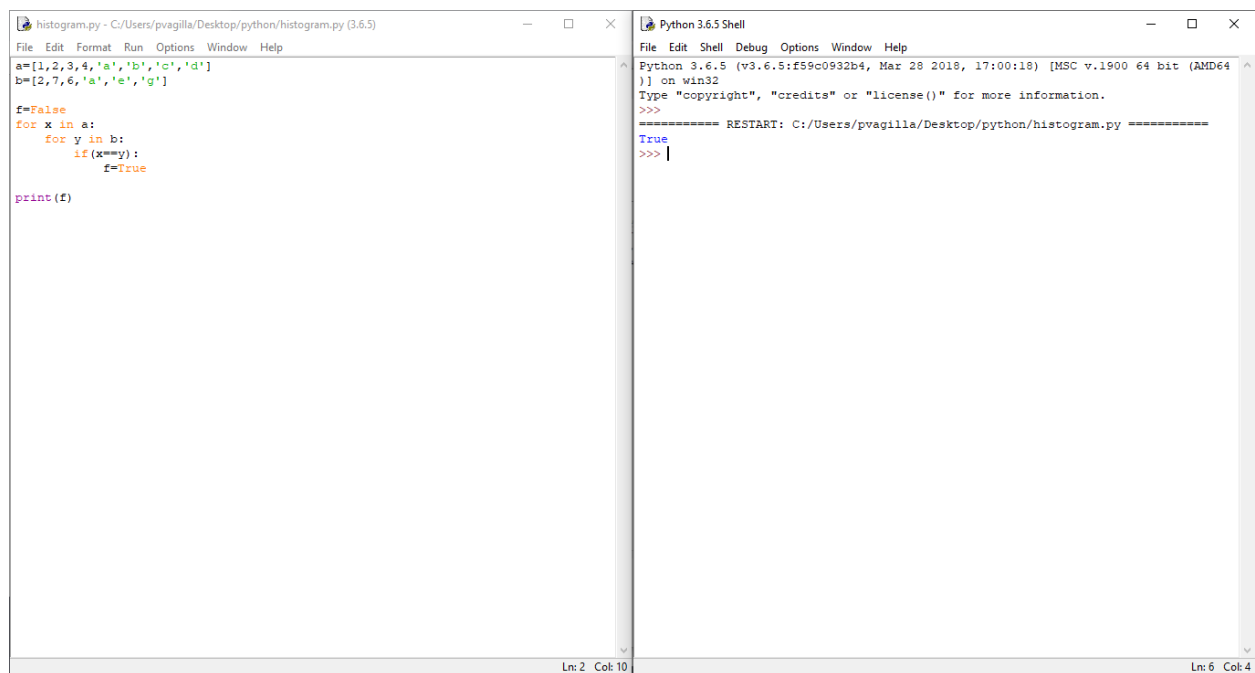
print(sum)
print(mul)
```

The right window, titled 'Python 3.6.5 Shell', shows the output of the script:

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
10
24
>>> |
```

The status bar at the bottom indicates 'Ln: 10 Col: 0' for the left window and 'Ln: 7 Col: 4' for the right window.

7.



The screenshot shows a Python IDE with two windows. The left window, titled 'histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)', contains the following code:

```
a=[1,2,3,4,'a','b','c','d']
b=[2,7,6,'a','e','g']

f=False
for x in a:
    for y in b:
        if(x==y):
            f=True

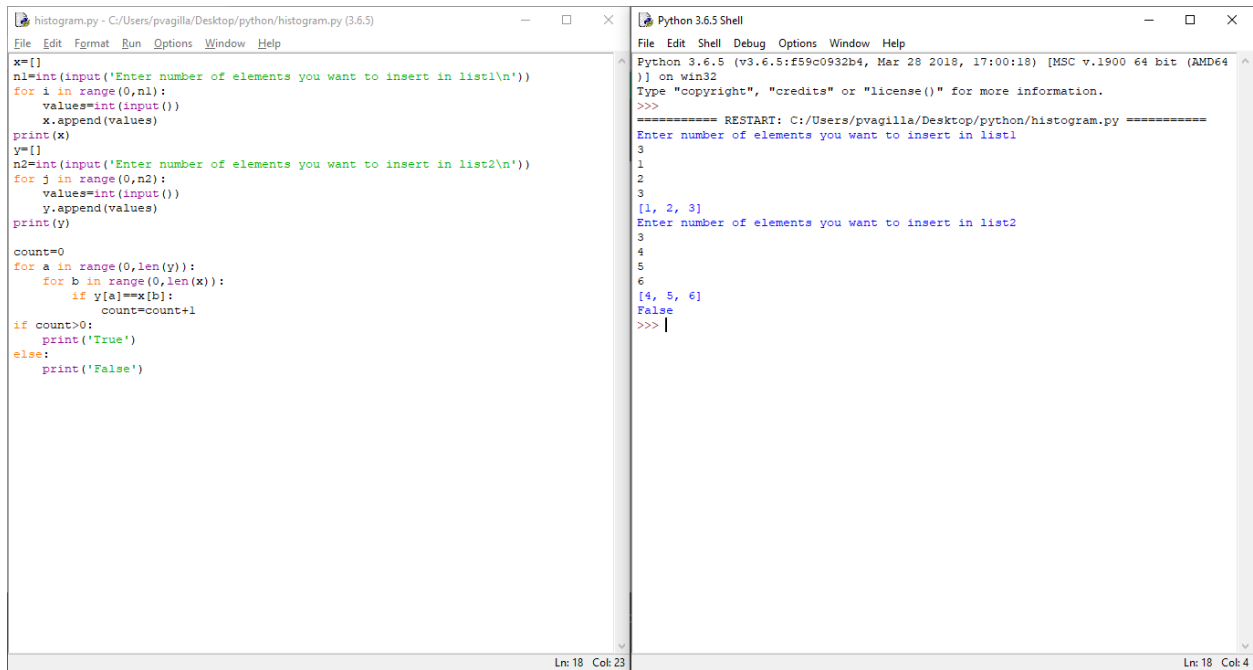
print(f)
```

The right window, titled 'Python 3.6.5 Shell', shows the output of the script:

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
True
>>> |
```

The status bar at the bottom indicates 'Ln: 2 Col: 10' for the left window and 'Ln: 6 Col: 4' for the right window.

8.



```
histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)
File Edit Format Run Options Window Help
x=[]
n1=int(input('Enter number of elements you want to insert in list1\n'))
for i in range(0,n1):
    values=int(input())
    x.append(values)
print(x)
y=[]
n2=int(input('Enter number of elements you want to insert in list2\n'))
for j in range(0,n2):
    values=int(input())
    y.append(values)
print(y)

count=0
for a in range(0,len(y)):
    for b in range(0,len(x)):
        if y[a]==x[b]:
            count=count+1

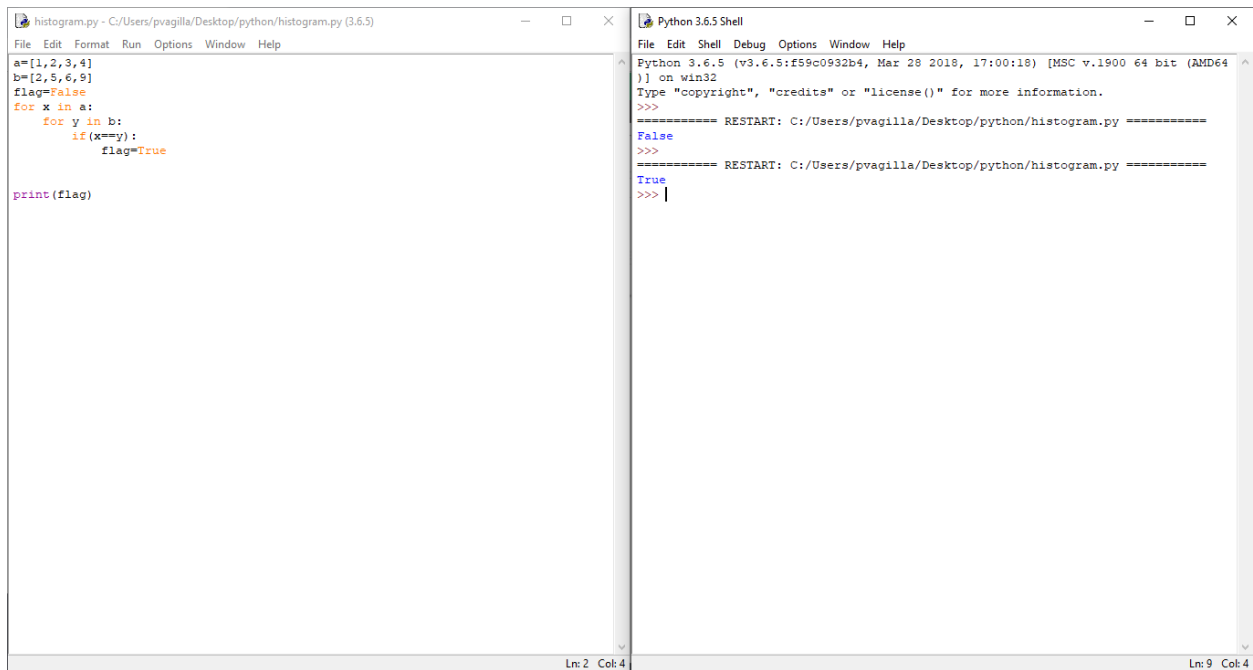
if count>0:
    print('True')
else:
    print('False')
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
Enter number of elements you want to insert in list1
3
1
2
3
[1, 2, 3]
Enter number of elements you want to insert in list2
3
4
5
6
[4, 5, 6]
False
>>> |
```

Ln: 18 Col: 23

Ln: 18 Col: 4

8. Model-2



```
histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)
File Edit Format Run Options Window Help
a=[1,2,3,4]
b=[2,5,6,9]
flag=False
for x in a:
    for y in b:
        if x==y:
            flag=True

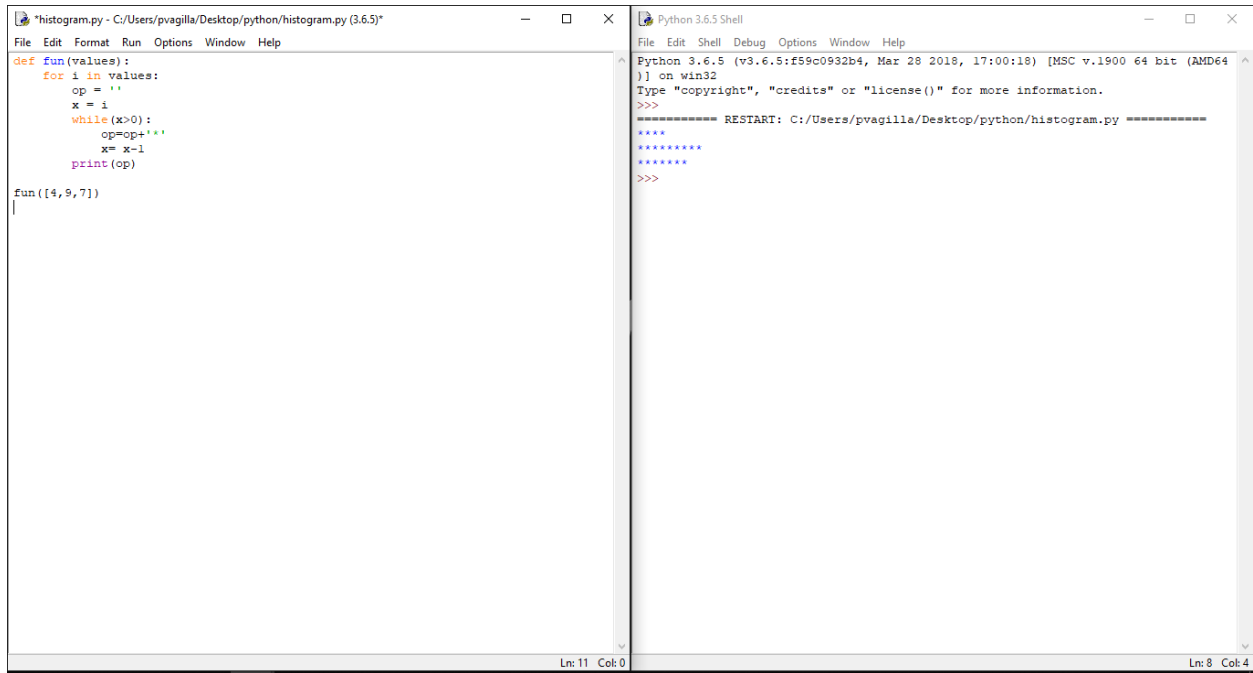
print(flag)
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
False
>>>
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====
True
>>> |
```

Ln: 2 Col: 4

Ln: 9 Col: 4

9.



The image shows a screenshot of a Python IDE with two windows. The left window, titled "histogram.py - C:/Users/pvagilla/Desktop/python/histogram.py (3.6.5)", contains the following code:

```
def fun(values):  
    for i in values:  
        op = ''  
        x = i  
        while (x>0):  
            op=op+'* '*x  
            x= x-1  
        print(op)  
  
fun([4,9,7])  
|
```

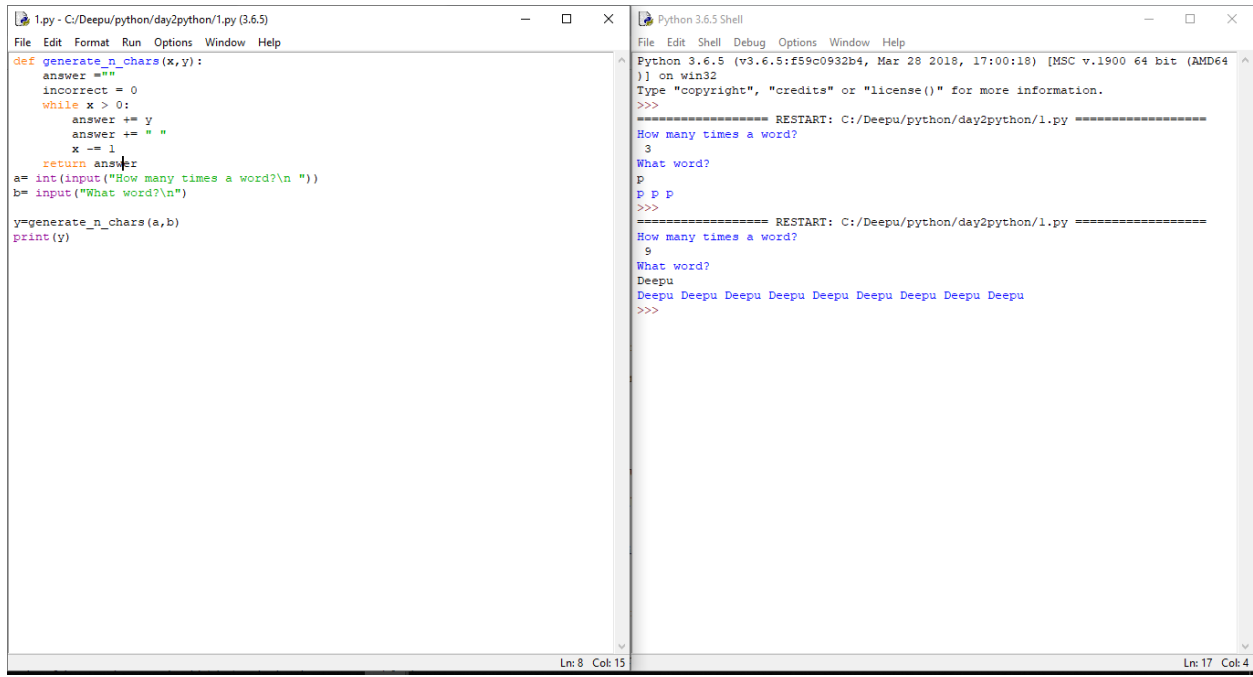
The right window, titled "Python 3.6.5 Shell", shows the output of the script. It displays the Python version and architecture, followed by a restart message and a series of asterisks representing the histogram output:

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32  
Type "copyright", "credits" or "license()" for more information.  
>>>  
===== RESTART: C:/Users/pvagilla/Desktop/python/histogram.py =====  
*****  
*****  
*****  
>>>
```

The status bar at the bottom indicates the current line and column for both windows: "Ln: 11 Col: 0" for the editor and "Ln: 8 Col: 4" for the shell.

Day-2

1.



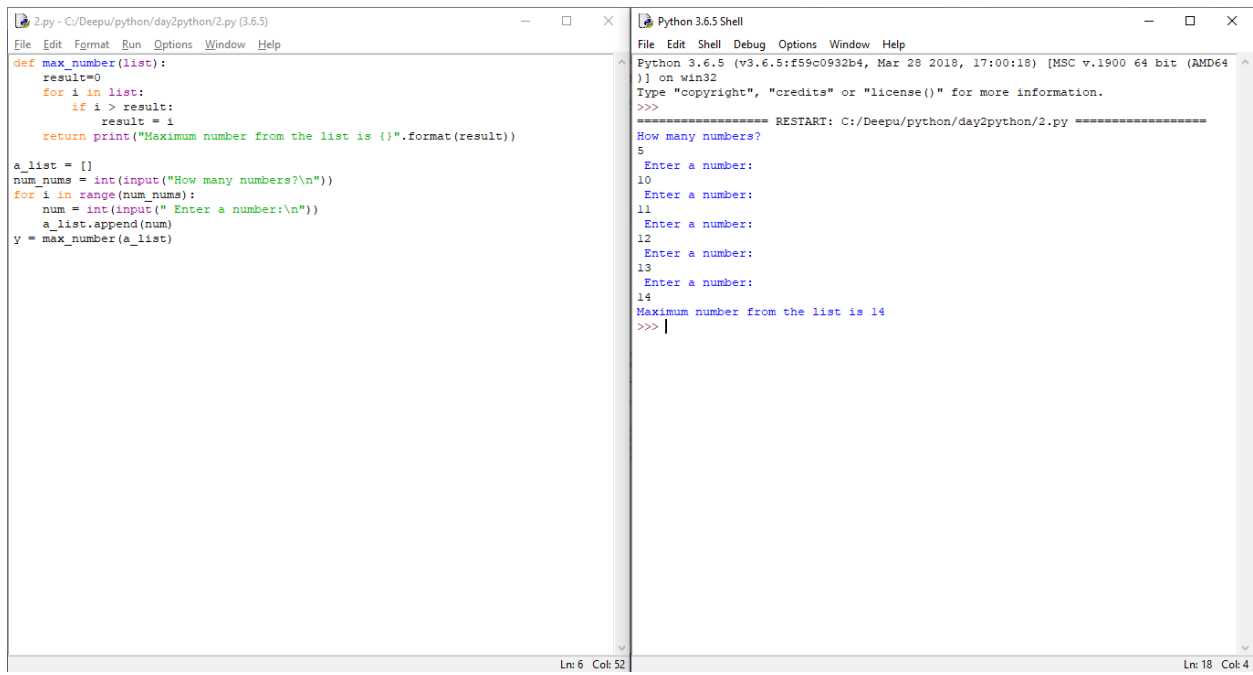
```
1.py - C:/Deepu/python/day2python/1.py (3.6.5)
File Edit Format Run Options Window Help

def generate_n_chars(x,y):
    answer=""
    incorrect=0
    while x>0:
        answer+=y
        answer+=" "
        x-=1
    return answer
a=int(input("How many times a word?\n "))
b=input("What word?\n")
y=generate_n_chars(a,b)
print(y)

Python 3.6.5 Shell
File Edit Shell Debug Options Window Help

Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Deepu/python/day2python/1.py =====
>>>
How many times a word?
3
What word?
p
p p p
>>>
===== RESTART: C:/Deepu/python/day2python/1.py =====
>>>
How many times a word?
9
What word?
Deepu
Deepu Deepu Deepu Deepu Deepu Deepu Deepu Deepu
>>>
```

2.



```
2.py - C:/Deepu/python/day2python/2.py (3.6.5)
File Edit Format Run Options Window Help

def max_number(list):
    result=0
    for i in list:
        if i>result:
            result=i
    return print("Maximum number from the list is {}".format(result))

a_list=[]
num_nums=int(input("How many numbers?\n"))
for i in range(num_nums):
    num=int(input("Enter a number:\n"))
    a_list.append(num)
y=max_number(a_list)

Python 3.6.5 Shell
File Edit Shell Debug Options Window Help

Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Deepu/python/day2python/2.py =====
>>>
How many numbers?
5
Enter a number:
10
Enter a number:
11
Enter a number:
12
Enter a number:
13
Enter a number:
14
Maximum number from the list is 14
>>>
```

3.

The screenshot shows a Python 3.6.5 IDE with two windows. The left window, titled '3.py - C:/Deepu/python/day2python/3.py (3.6.5)', contains the following code:

```
def len_of_words(list):
    lenwords = []
    for i in list:
        lenwords.append(len(i))
    return print(lenwords)

a_list = []
num_nums = int(input("How many numbers?\n"))
for i in range(num_nums):
    num = (input("Enter a word:\n"))
    a_list.append(num)
y = len_of_words(a_list)
```

The right window, titled 'Python 3.6.5 Shell', shows the execution output:

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Deepu/python/day2python/3.py =====
How many numbers?
5
Enter a word:
Pradeep
Enter a word:
Deepu
Enter a word:
Prem
Enter a word:
abbas
Enter a word:
abodefg hij
[7, 5, 4, 5, 10]
>>> |
```

The status bar at the bottom indicates 'Ln: 10 Col: 9' for the script and 'Ln: 18 Col: 4' for the shell.

4.

The screenshot shows a Python 3.6.5 IDE with two windows. The left window, titled '4.py - C:/Deepu/python/day2python/4.py (3.6.5)', contains the following code:

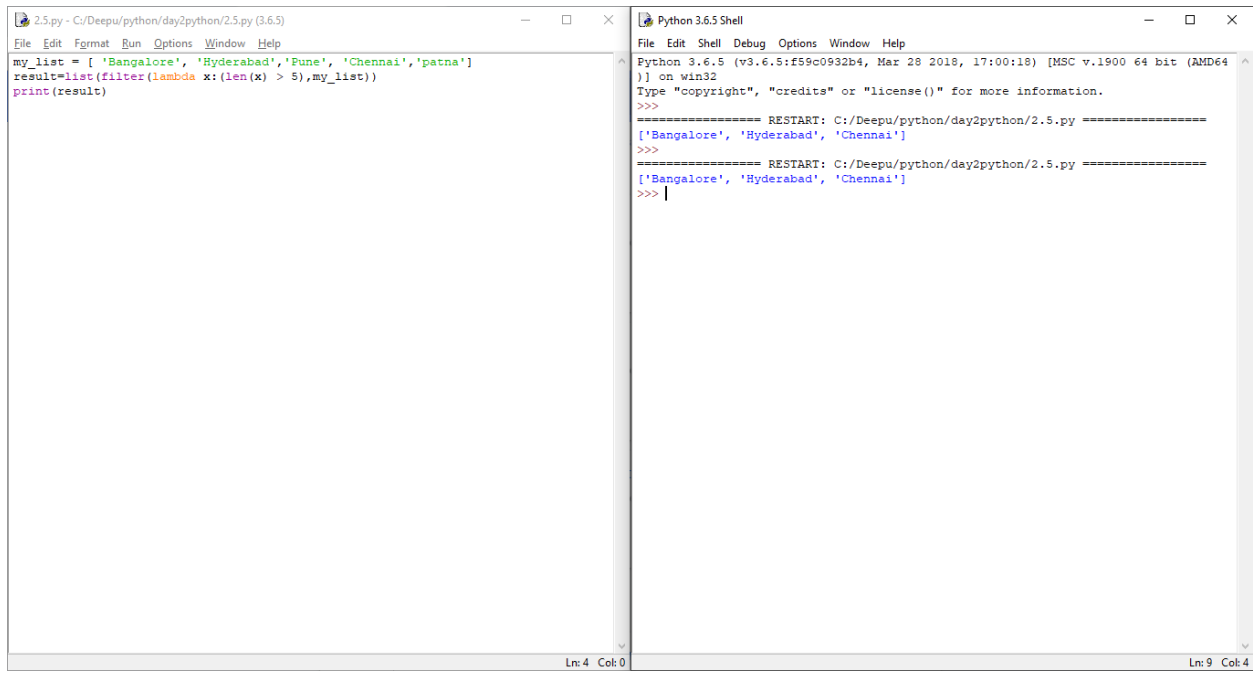
```
List = ('Bangalore', 'Hyderabad', 'Pune', 'Chennai')
a=len(sorted(List,key=lambda s:len(s))[-1])
print(a)
```

The right window, titled 'Python 3.6.5 Shell', shows the execution output:

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Deepu/python/day2python/4.py =====
9
>>> |
```

The status bar at the bottom indicates 'Ln: 4 Col: 0' for the script and 'Ln: 6 Col: 4' for the shell.

5.



The screenshot shows a Python IDE with two windows. The left window, titled '2.5.py - C:\Deepu\python\day2python\2.5.py (3.6.5)', contains the following code:

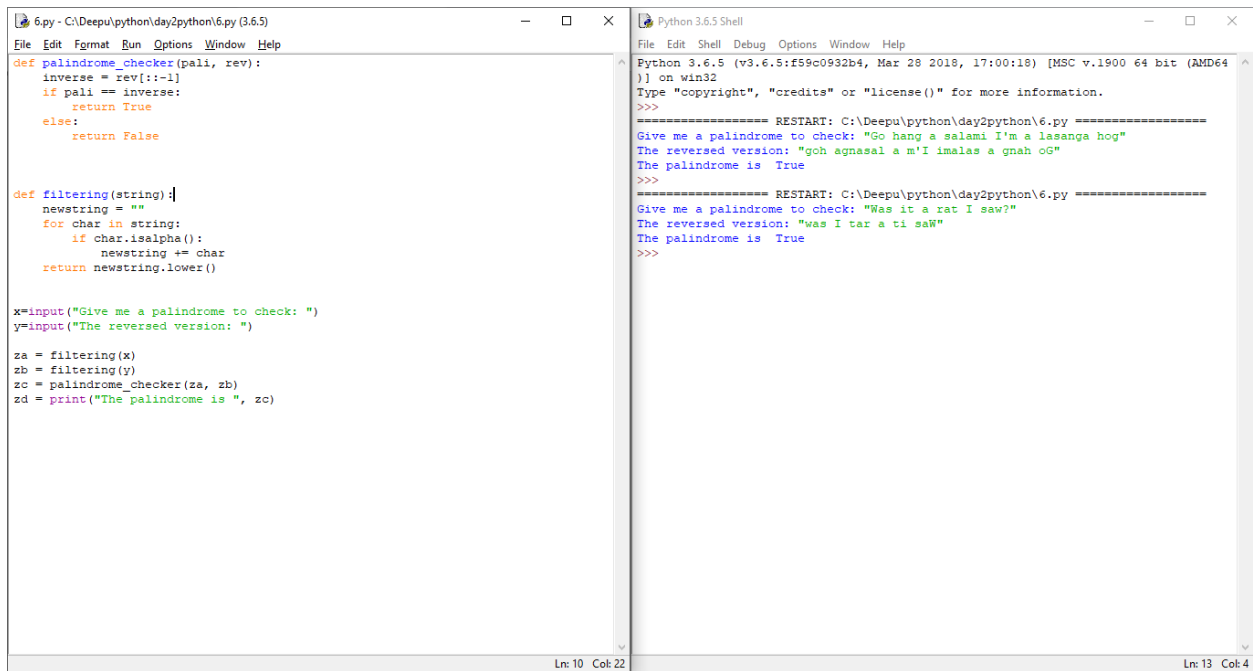
```
File Edit Format Run Options Window Help
my_list = [ 'Bangalore', 'Hyderabad', 'Pune', 'Chennai', 'patna']
result=list(filter(lambda x:(len(x) > 5),my_list))
print(result)
```

The right window, titled 'Python 3.6.5 Shell', shows the execution output:

```
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Deepu\python\day2python\2.5.py =====
>>>
['Bangalore', 'Hyderabad', 'Chennai']
===== RESTART: C:\Deepu\python\day2python\2.5.py =====
>>>
['Bangalore', 'Hyderabad', 'Chennai']
>>> |
```

The status bar at the bottom indicates 'Ln: 4 Col: 0' for the script and 'Ln: 9 Col: 4' for the shell.

6.



The screenshot shows a Python IDE with two windows. The left window, titled '6.py - C:\Deepu\python\day2python\6.py (3.6.5)', contains the following code:

```
File Edit Format Run Options Window Help
def palindrome_checker(pali, rev):
    inverse = rev[::-1]
    if pali == inverse:
        return True
    else:
        return False

def filtering(string):
    newstring = ""
    for char in string:
        if char.isalpha():
            newstring += char
    return newstring.lower()

x=input("Give me a palindrome to check: ")
y=input("The reversed version: ")

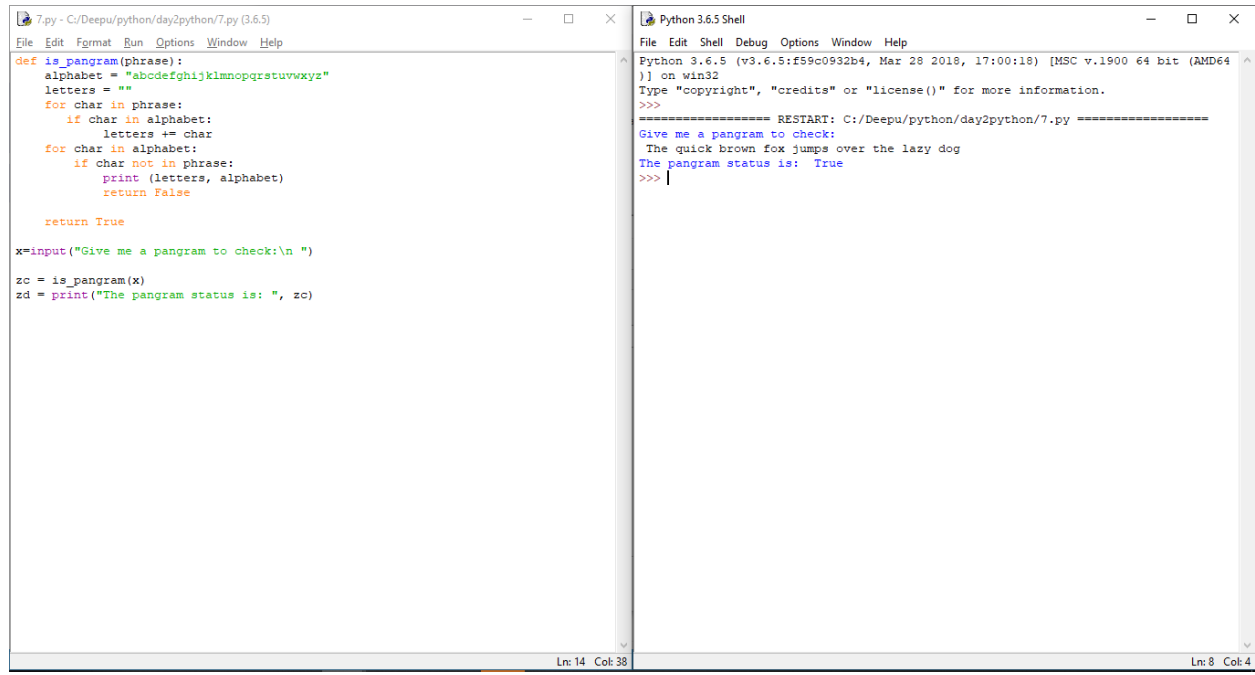
za = filtering(x)
zb = filtering(y)
zc = palindrome_checker(za, zb)
zd = print("The palindrome is ", zc)
```

The right window, titled 'Python 3.6.5 Shell', shows the execution output:

```
File Edit Shell Debug Options Window Help
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Deepu\python\day2python\6.py =====
Give me a palindrome to check: "Go hang a salami I'm a lasanga hog"
The reversed version: "goh agnasal a m'I imalas a gnah oG"
The palindrome is True
>>>
===== RESTART: C:\Deepu\python\day2python\6.py =====
Give me a palindrome to check: "Was it a rat I saw?"
The reversed version: "was I tar a ti saW"
The palindrome is True
>>>
```

The status bar at the bottom indicates 'Ln: 10 Col: 22' for the script and 'Ln: 13 Col: 4' for the shell.

7.



```
7.py - C:/Deepu/python/day2python/7.py (3.6.5)
File Edit Format Run Options Window Help

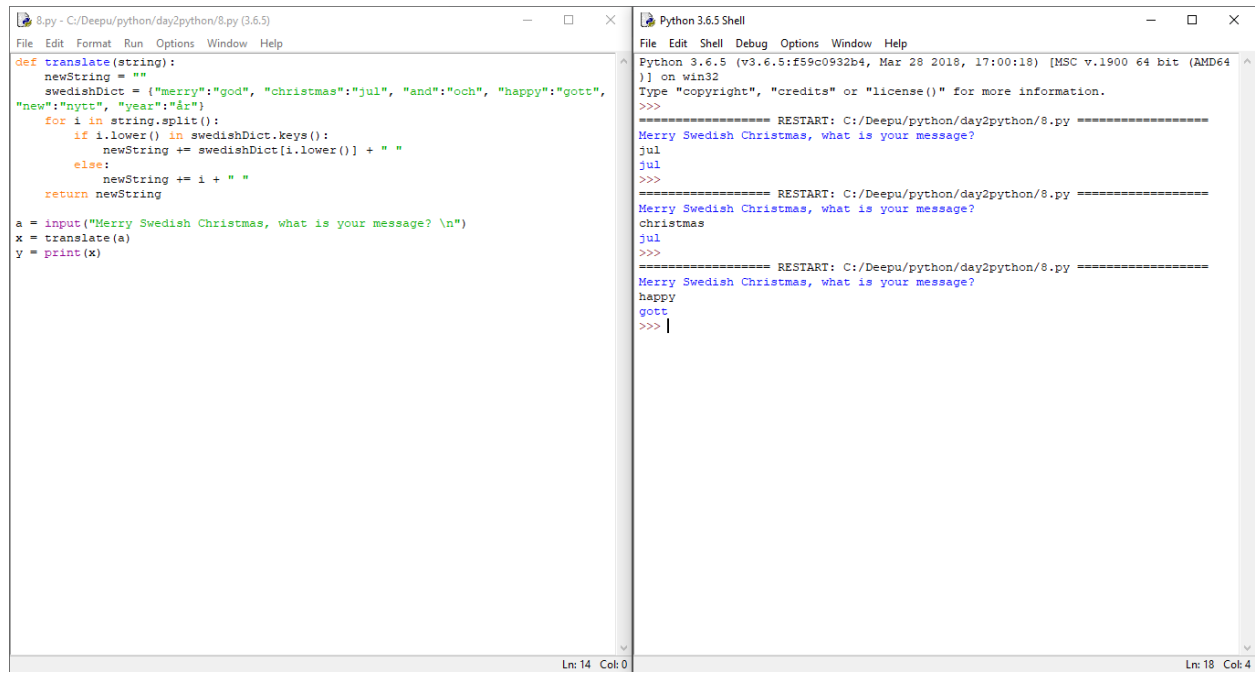
def is_pangram(phrase):
    alphabet = "abcdefghijklmnopqrstuvwxyz"
    letters = ""
    for char in phrase:
        if char in alphabet:
            letters += char
    for char in alphabet:
        if char not in letters:
            print(char, "not in pangram")
            return False
    return True

x=input("Give me a pangram to check:\n ")
zc = is_pangram(x)
zd = print("The pangram status is: ", zc)
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help

Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Deepu/python/day2python/7.py =====
Give me a pangram to check:
The quick brown fox jumps over the lazy dog
The pangram status is: True
>>>
```

8.



```
8.py - C:/Deepu/python/day2python/8.py (3.6.5)
File Edit Format Run Options Window Help

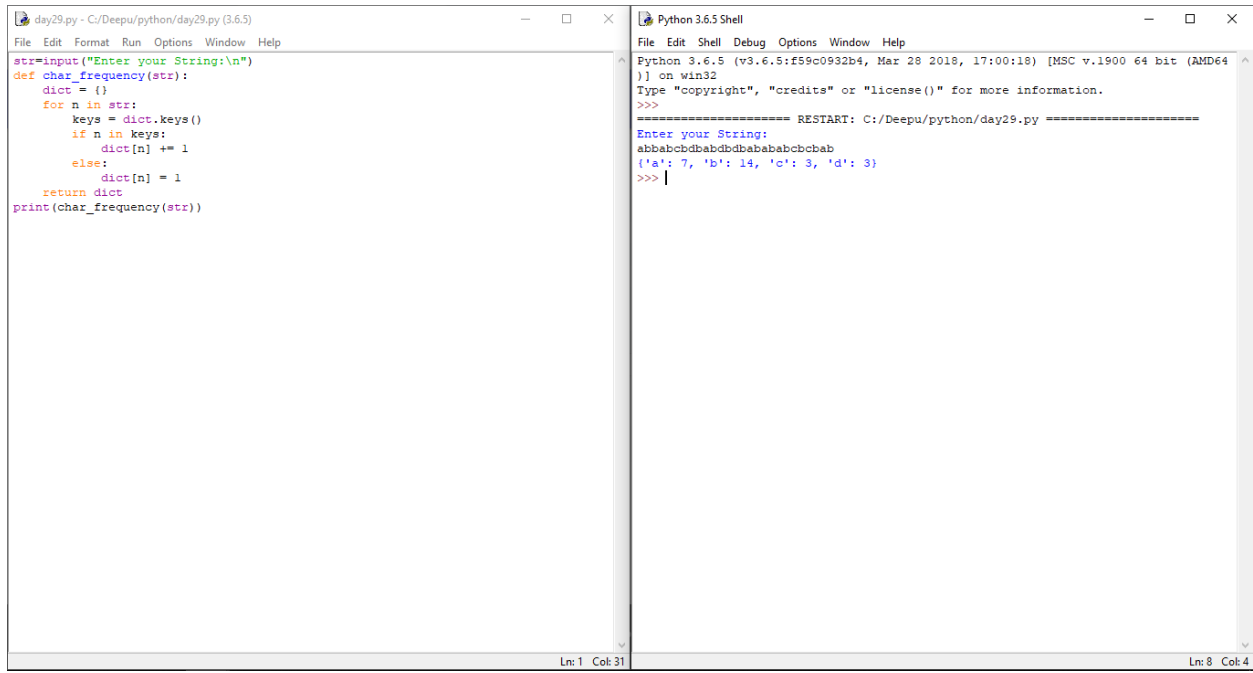
def translate(string):
    newString = ""
    swedishDict = {"merry": "god", "christmas": "jul", "and": "och", "happy": "gott", "new": "nytt", "year": "år"}
    for i in string.split():
        if i.lower() in swedishDict.keys():
            newString += swedishDict[i.lower()] + " "
        else:
            newString += i + " "
    return newString

a = input("Merry Swedish Christmas, what is your message? \n")
x = translate(a)
y = print(x)
```

```
Python 3.6.5 Shell
File Edit Shell Debug Options Window Help

Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Deepu/python/day2python/8.py =====
Merry Swedish Christmas, what is your message?
jul
jul
>>>
===== RESTART: C:/Deepu/python/day2python/8.py =====
Merry Swedish Christmas, what is your message?
christmas
jul
>>>
===== RESTART: C:/Deepu/python/day2python/8.py =====
Merry Swedish Christmas, what is your message?
happy
gott
>>>
```

9.



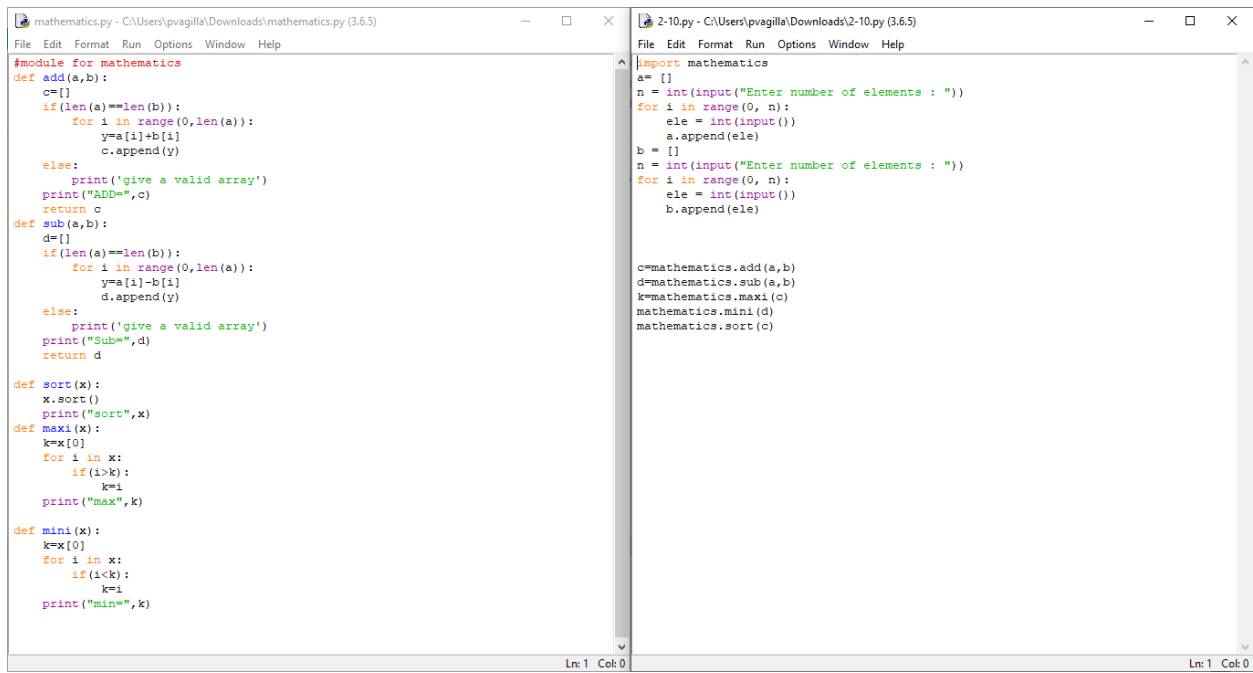
The image shows a Python IDE with two windows. The left window, titled 'day29.py - C:/Deepu/python/day29.py (3.6.5)', contains the following code:

```
str=input("Enter your String:\n")
def char_frequency(str):
    dict = {}
    for n in str:
        keys = dict.keys()
        if n in keys:
            dict[n] += 1
        else:
            dict[n] = 1
    return dict
print(char_frequency(str))
```

The right window, titled 'Python 3.6.5 Shell', shows the output of the script:

```
Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:/Deepu/python/day29.py =====
Enter your String:
abbabcbdbabdbdbabababcbcbab
{'a': 7, 'b': 14, 'c': 3, 'd': 3}
>>>
```

10.



The image shows a Python IDE with two windows. The left window, titled 'mathematics.py - C:\Users\pvagilla\Downloads\mathematics.py (3.6.5)', contains the following code:

```
#module for mathematics
def add(a,b):
    c=[]
    if len(a)==len(b):
        for i in range(0,len(a)):
            y=a[i]+b[i]
            c.append(y)
    else:
        print('give a valid array')
        print("ADD=",c)
        return c
def sub(a,b):
    d=[]
    if len(a)==len(b):
        for i in range(0,len(a)):
            y=a[i]-b[i]
            d.append(y)
    else:
        print('give a valid array')
        print("Sub=",d)
        return d
def sort(x):
    x.sort()
    print("sort",x)
def maxi(x):
    k=x[0]
    for i in x:
        if(i>k):
            k=i
    print("max",k)
def mini(x):
    k=x[0]
    for i in x:
        if(i<k):
            k=i
    print("min=",k)
```

The right window, titled '2-10.py - C:\Users\pvagilla\Downloads\2-10.py (3.6.5)', contains the following code:

```
import mathematics
a= []
n = int(input("Enter number of elements : "))
for i in range(0, n):
    ele = int(input())
    a.append(ele)
b = []
n = int(input("Enter number of elements : "))
for i in range(0, n):
    ele = int(input())
    b.append(ele)

c=mathematics.add(a,b)
d=mathematics.sub(a,b)
k=mathematics.maxi(c)
mathematics.mini(d)
mathematics.sort(c)
```

```
2-10.py - C:\Users\pvagilla\Downloads\2-10.py (3.6.5)
File Edit Format Run Options Window Help

import mathematics
a = []
n = int(input("Enter number of elements : "))
for i in range(0, n):
    ele = int(input())
    a.append(ele)
b = []
n = int(input("Enter number of elements : "))
for i in range(0, n):
    ele = int(input())
    b.append(ele)

c = mathematics.add(a, b)
d = mathematics.sub(a, b)
k = mathematics.maxi(c)
mathematics.mini(d)
mathematics.sort(c)

Python 3.6.5 Shell
File Edit Shell Debug Options Window Help

Python 3.6.5 (v3.6.5:f59c0932b4, Mar 28 2018, 17:00:18) [MSC v.1900 64 bit (AMD64)] on win32
Type "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: C:\Users\pvagilla\Downloads\2-10.py =====
Enter number of elements : 2
5
6
Enter number of elements : 2
4
9
ADD= [9, 15]
Sub= [1, -3]
max 15
min= -3
sort [9, 15]
>>> |
```

11.

```
C:\Users\ragadt\Desktop>py array.py

Add two arrays
10

Maximum
19

Minimum
2

Sorting
[2, 3, 4, 19]

C:\Users\ragadt\Desktop>

import mathematics


print("\n Add two arrays ")
print(mathematics.add_two([1,2],[3,4]))

print("\n Maximum ")
print(mathematics.maximum([19,2,3,4]))

print("\n Minimum ")
print(mathematics.minimum([19,2,3,4]))

print("\n Sorting ")
print(mathematics.sorting([19,2,3,4]))
```

12.

 day2_11.py - C:/python lab/day2_11.py (3.6.5)

File Edit Format Run Options Window Help

```
import datetime
d=datetime.date(2019,9,12)
datetimeInstance=datetime.datetime.today()
dateInstance=datetimeInstance.date()
|
```

```
>>> print(d)
2019-09-12
>>> print(datetime.datetime(2019,9,12))
2019-09-12 00:00:00
>>> print(datetime.datetime(2019,9,12,10,11,20))
2019-09-12 10:11:20
>>> print(datetimeInstance)
2019-09-12 10:09:01.460841
>>> print(dateInstance)
2019-09-12
>>> |
```

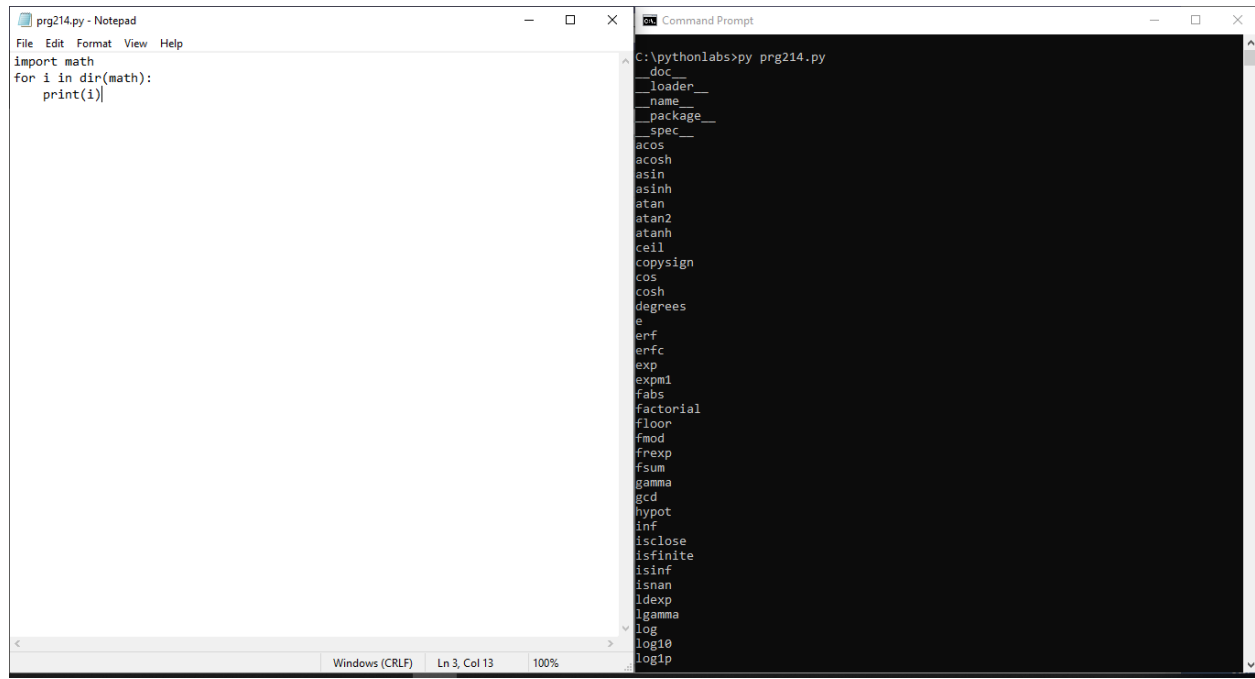
13.

```
from shutil import copyfile;
print("Enter 'x' for exit.");
sourcefile = input("Enter source file name (copy from): ");
if sourcefile == 'x':
    exit();
else:
    destinationfile = input("Enter destination file name (copy to): ");
    copyfile(sourcefile, destinationfile);
    print("File copied successfully!");
    print("Want to display the content ? (y/n): ");
    check = input();
    if check == 'n':
        exit();
    else:
        c = open(destinationfile, "r");
        print(c.read());
        c.close();
```

```
C:\Users\ragadt\Desktop>py copies.py
Enter 'x' for exit.
Enter source file name (copy from): test.txt
Enter destination file name (copy to): out.txt
File copied successfully!
Want to display the content ? (y/n):
y
Hello world
This is Ragadharani....

C:\Users\ragadt\Desktop>
```

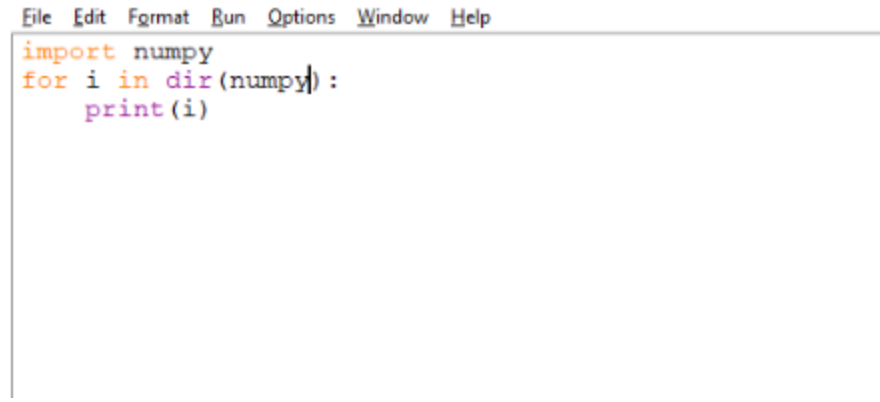
14.



The screenshot shows two windows side-by-side. The left window is a Notepad editor titled 'prg214.py - Notepad'. It contains the following Python code:

```
import math
for i in dir(math):
    print(i)
```

The right window is a Command Prompt titled 'Command Prompt'. It shows the command 'C:\pythonlabs>py prg214.py' being executed. The output is a list of attributes from the 'math' module, including: doc, __loader__, __name__, __package__, __spec__, acos, acosh, asin, asinh, atan, atan2, atanh, ceil, copysign, cos, cosh, degrees, e, erf, erfc, exp, expm1, fabs, factorial, floor, fmod, frexp, fsum, gamma, gcd, hypot, inf, isclose, isfinite, isinf, isnan, ldexp, lgamma, log, log10, and log1p.



The screenshot shows a Notepad editor window with the following Python code:

```
File Edit Format Run Options Window Help
import numpy
for i in dir(numpy):
    print(i)
```

File Edit Shell Debug Options Window Help

```
typecodes
typename
ubyte
ufunc
uint
uint0
uint16
uint32
uint64
uint8
uintc
uintp
ulonglong
unicode
unicode_
unionld
unique
unpackbits
unravel_index
unsignedinteger
unwrap
ushort
vander
var
vdot
vectorize
version
void
void0
vsplit
vstack
warnings
where
who
zeros
zeros_like
>>>
```
