

ASSIGNMENT-2

GITHUB LINK: <https://github.com/vvnandhan/ICP-2>

Program1:

```
1 #Author : Vayu_Nandhan_Valluri
2
3 def full_name():
4     try:
5         inp_a = str(input("Enter your first_name here:"))
6         inp_b = str(input("Enter your last_name here:"))
7         if validate_inp(inp_a) and validate_inp(inp_b):
8             full_name = inp_a + " " + inp_b
9             print(full_name)
10            return full_name
11        else:
12            print("please enter a valid string")
13    except Exception as error:
14        print("Error occured {}".format(error))
15
16 2 usages
17
18 def validate_inp(input_value):
19
20     if input_value != '' and input_value is not None and input_value.isspace() != True and input_value.isnumeric() != True:
21         return True
22     else:
23         return False
24
25 1 usage
26
27 def string_alternative(full_name):
28     try:
29         inp_1 = full_name
30         print(inp_1[:2])
31     except Exception as error:
32         print("Error occured {}".format(error))
33
34
35 if __name__ == "__main__":
36     f = full_name()
37     string_alternative(f)
```

Output:

```
C:\Users\vvnan\AppData\Local\Programs\Python\Python36\python.exe C:\Users\vvnan\OneDrive\Desktop\Neural\ICP2\ICP
Enter your first_name here: Vayu
Enter your last_name here:Nandhan
Vayu Nandhan
au ada

Process finished with exit code 0
```

Program2:

```
icp2_1.py  icp2_2.py ×  input.txt  Output.txt  icp2_3.py
1  #Author : Vayu_Nandhan_Valluri
2  with open('input.txt','r') as input_file:
3      a = dict()
4      for sentence in input_file:
5          sentence = sentence.strip()
6          sentence = sentence.lower()
7          words = sentence.split(" ")
8          for word in words:
9              if word in a:
10                 a[word] = a[word] + 1
11             else:
12                 a[word] = 1
13         with open('Output.txt','w') as output_file:
14             for key in list(a.keys()):
15                 print(key," :",a[key],file = output_file)
16
17
18
19
```

Output:

Input given:

```
icp2_1.py  icp2_2.py  input.txt ×  Output.txt  icp2_3.py
1  Python Course
2  Deep Learning Course
3  I Love Python
4  Hello World
5
```

Output obtained:

```
icp2_1.py  icp2_2.py  input.txt  Output.txt  icp2_3.py
1  python : 2
2  course : 2
3  deep : 1
4  learning : 1
5  i : 1
6  love : 1
7  hello : 1
8  world : 1
9
```

Program3:

```
icp2_1.py  icp2_2.py  input.txt  Output.txt  icp2_3.py
1  #Author : Vayu Nandhan Valluri
2  heights_list = []
3  heights_in_cm = []
4  while True:
5      inp_1 = input("Enter heights of customers(inches) (press q to quit):")
6      if inp_1 == 'q':
7          break
8      else:
9          heights_list.append(inp_1)
10
11  print("L1: ", heights_list)
12  heights_in_cm = [int(height) * 2.54 for height in heights_list]
13  print("Output: ", heights_in_cm)
14
15
16
```

Output:

```
Run  lcp2_3 x
C:\Users\vvnan\AppData\Local\Programs\Python\Python36\python.exe C:\Users\vvnan\OneDrive\Desktop\Neural\ICP2\ICP2\lcp2_3.py
Enter heights of customers(inches) (press q to quit):155
Enter heights of customers(inches) (press q to quit):150
Enter heights of customers(inches) (press q to quit):163
Enter heights of customers(inches) (press q to quit):172
Enter heights of customers(inches) (press q to quit):143
Enter heights of customers(inches) (press q to quit):q
L1: ['155', '150', '163', '172', '143']
Output: [393.7, 381.0, 414.02, 436.88, 363.22]

Process finished with exit code 0
|
```