

ASSIGNMENT-2

Github link: <https://github.com/SAIHB/ICP-2>

Program1:

```
icp2_1.py x icp2_2.py input.txt Output.txt icp2_3.py
1 #Author : Sai Harsha
1 usage
2 def full_name():
3     try:
4         inp_a = str(input("Enter your first_name here:"))
5         inp_b = str(input("Enter your last_name here:"))
6         if validate_inp(inp_a) and validate_inp(inp_b):
7             full_name = inp_a + " " + inp_b
8             print(full_name)
9             return full_name
10        else:
11            print("please enter a valid string")
12    except Exception as error:
13        print("Error occurred {}".format(error))
14
15 2 usages
16 def validate_inp(input_value):
17     if input_value != '' and input_value is not None and input_value.isspace() != True and input
18     return True
19     else:
20     return False
21
22 1 usage
23 def string_alternative(full_name):
24     try:
25         inp_1 = full_name
26         print(inp_1[:2])
27     except Exception as error:
```

Output:

```
C:\Users\kalle\AppData\Local\Microsoft\WindowsApps\python3.11.exe C:\Users\kalle\OneD
Enter your first_name here: Sai
Enter your last_name here:Harsha
Sai Harsha
a asa

Process finished with exit code 0
```

Program2:

```
1 #Author : SAI HARSHA
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)
```

Output:

1. Input:

```
1 Python Course
2 Deep Learning Course
```

2. Output:

```
icp2_1.py  icp2_2.py  input.txt
1  python : 1
2  course : 2
3  deep : 1
4  learning : 1
5
```

Program3:

```
icp2_1.py  icp2_2.py  input.txt  Output.txt  icp2_3.py
1  #Author : SAI HARSHA
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:

```
C:\Users\kalle\AppData\Local\Microsoft\WindowsApps\python3.11.exe C:\Users\kalle\OneDrive\De
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):165
Enter heights of customers(inches) (press q to quit):160
Enter heights of customers(inches) (press q to quit):145
Enter heights of customers(inches) (press q to quit):q
L1: ['155', '150', '165', '160', '145']
Output: [393.7, 381.0, 419.1, 406.4, 368.3]

Process finished with exit code 0
|
```