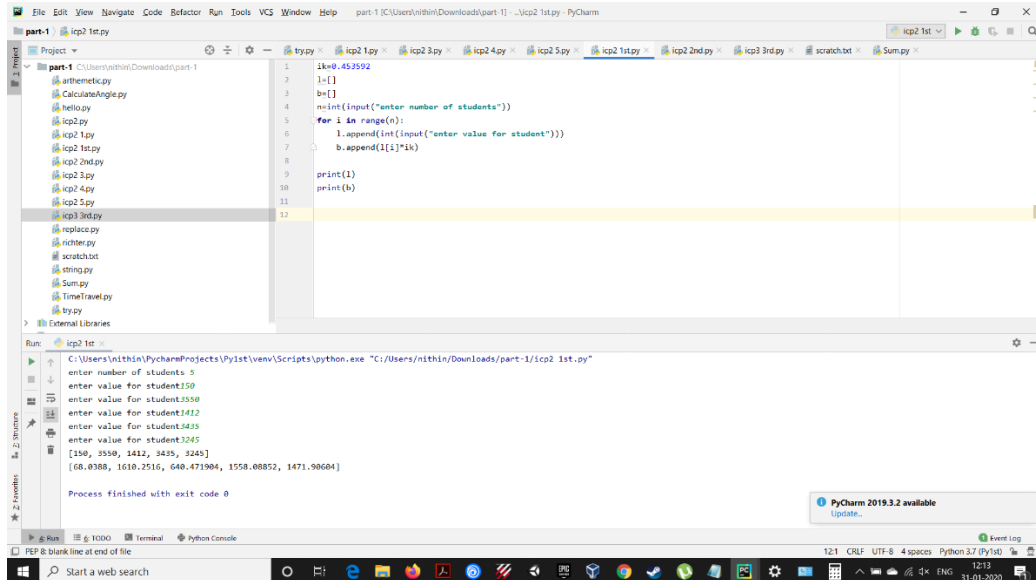


ICP 2

1. LOOPS AND LIST COMPREHENSIONS



The screenshot shows the PyCharm IDE with a project named 'part-1'. The file 'icp2 1st.py' is open and contains the following Python code:

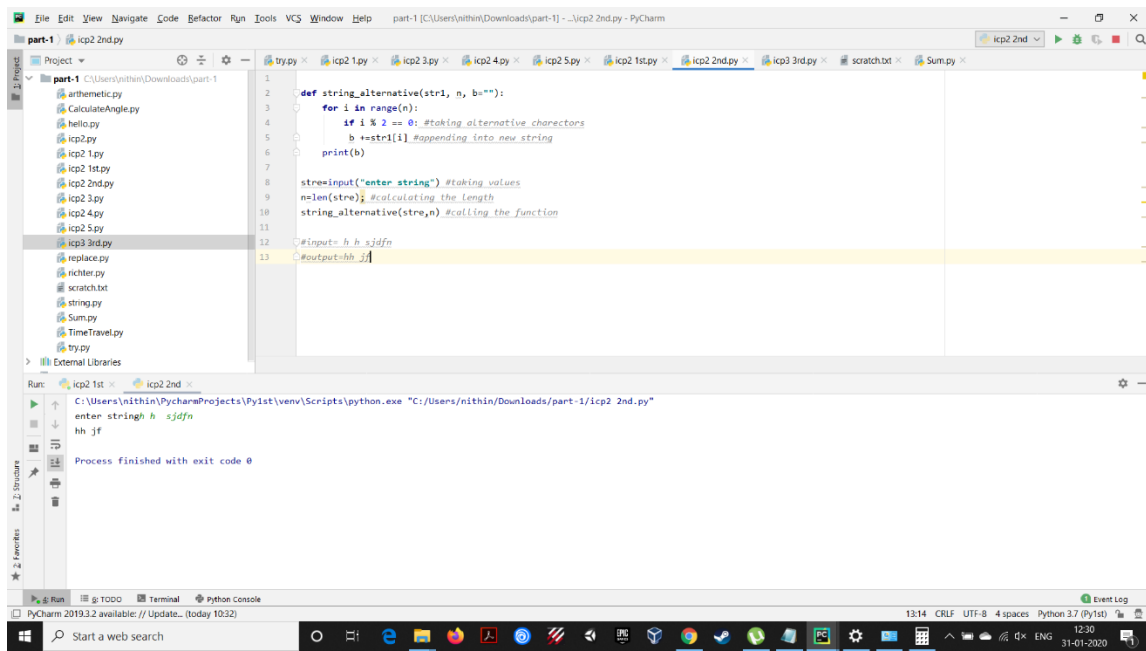
```
1 ik=0.452592
2 l=[]
3 b=[]
4 nsint(input("enter number of students"))
5 for i in range(n):
6     l.append(int(input("enter value for student")))
7     b.append(l[i]*ik)
8
9 print(l)
10 print(b)
```

The Run console shows the execution output:

```
enter number of students 5
enter value for student150
enter value for student950
enter value for student1412
enter value for student3435
enter value for student3245
[150, 950, 1412, 3435, 3245]
[68.8388, 1610.2516, 640.471904, 1558.08852, 1471.98604]
```

Process finished with exit code 0

2. RETURNING ALTERNATE VALUES OF STRING



The screenshot shows the PyCharm IDE with a project named 'part-1'. The file 'icp2 2nd.py' is open and contains the following Python code:

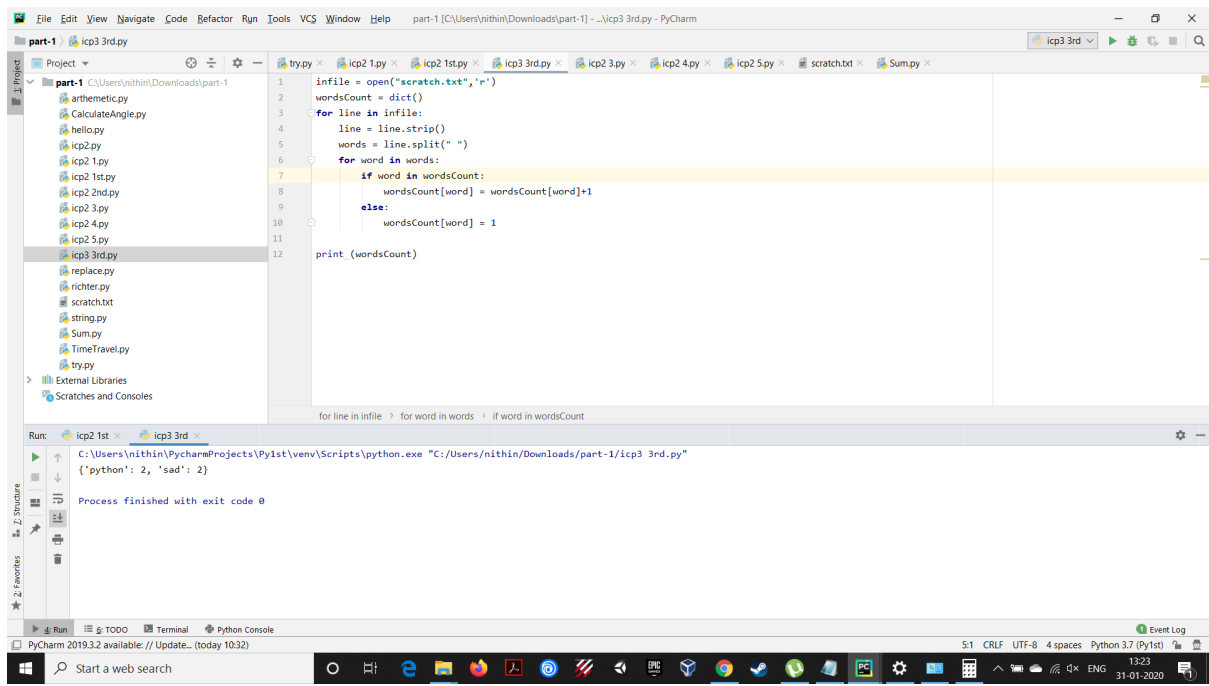
```
1 def string_alternative(str1, n, b==""):
2     for i in range(n):
3         if i % 2 == 0: #taking alternative characters
4             b +=str1[i] #appending into new string
5         print(b)
6
7 stre=input("enter string") #taking values
8 n=len(stre) #calculating the length
9 string_alternative(stre,n) #calling the function
```

The Run console shows the execution output:

```
enter string h sjdfn
hh jf
```

Process finished with exit code 0

3. EACH WORD COUNT IN A FILE



The screenshot shows the PyCharm IDE interface. The main editor window displays a Python script named `icp3 3rd.py` with the following code:

```
1 infile = open("scratch.txt", "r")
2 wordsCount = dict()
3 for line in infile:
4     line = line.strip()
5     words = line.split(" ")
6     for word in words:
7         if word in wordsCount:
8             wordsCount[word] = wordsCount[word] + 1
9         else:
10            wordsCount[word] = 1
11
12 print(wordsCount)
```

The left sidebar shows the project structure for `part-1`, listing various Python files including `icp3 3rd.py`. The bottom status bar indicates the file encoding is UTF-8 and the Python version is 3.7 (Py1st).

BY

DUKKIPATI SRI SAI NITHIN CHOWDARY

CLASS ID : 4

TEAM : 6