LAB ASSIGNMENT 1

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Objective: To implement basic python codes

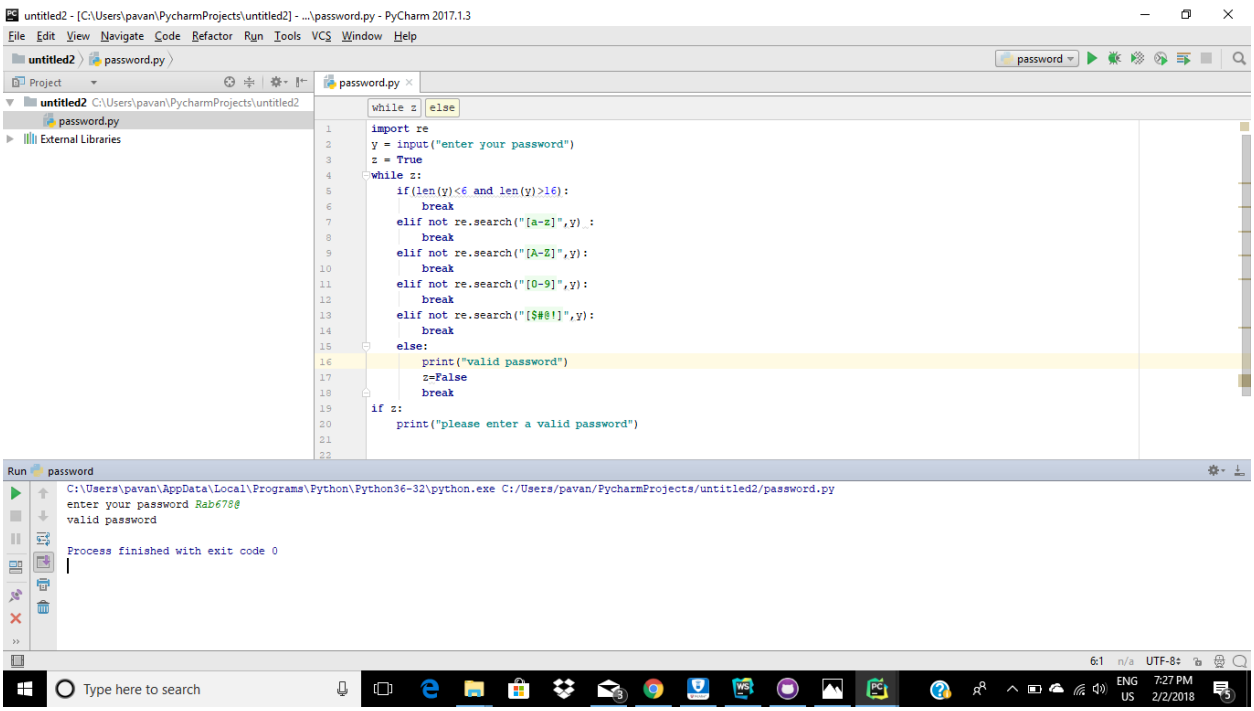
Features: Main features of the assignment are to get hands on in implementing:

1) Lists
2) Tuples
3) Loops
4) Functions

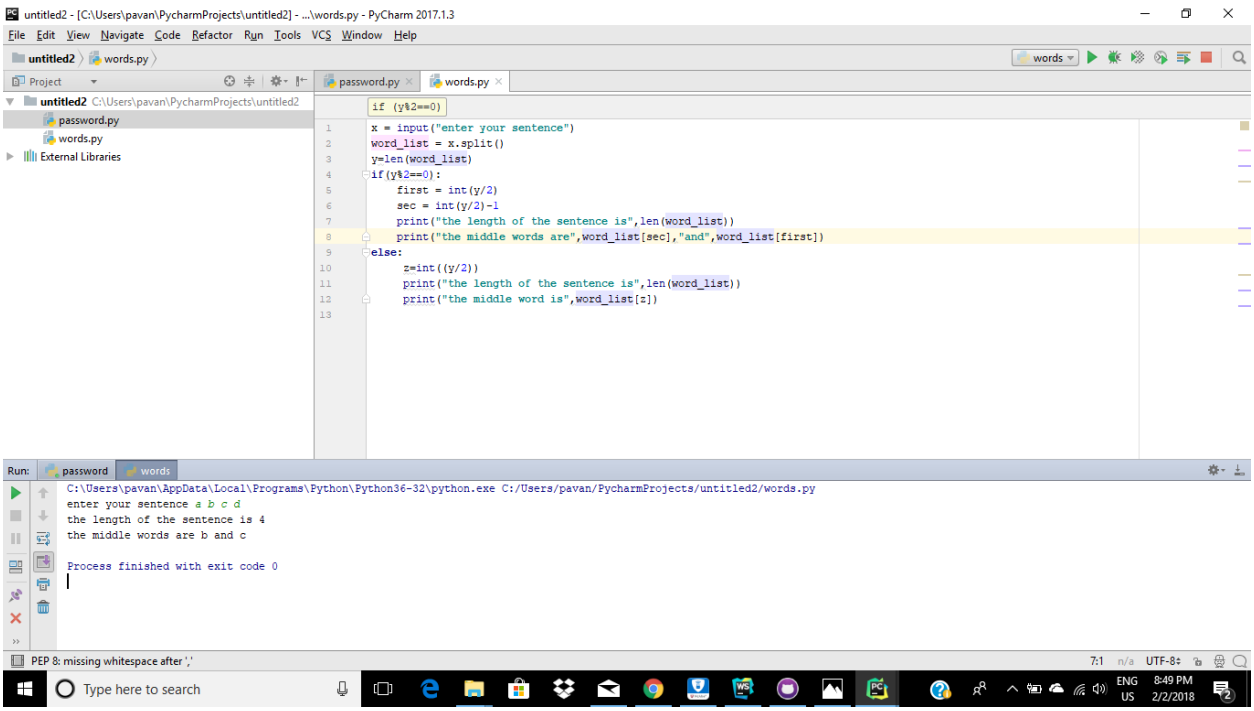
Configuration: The programs are implemented in pycharm with version 3.6

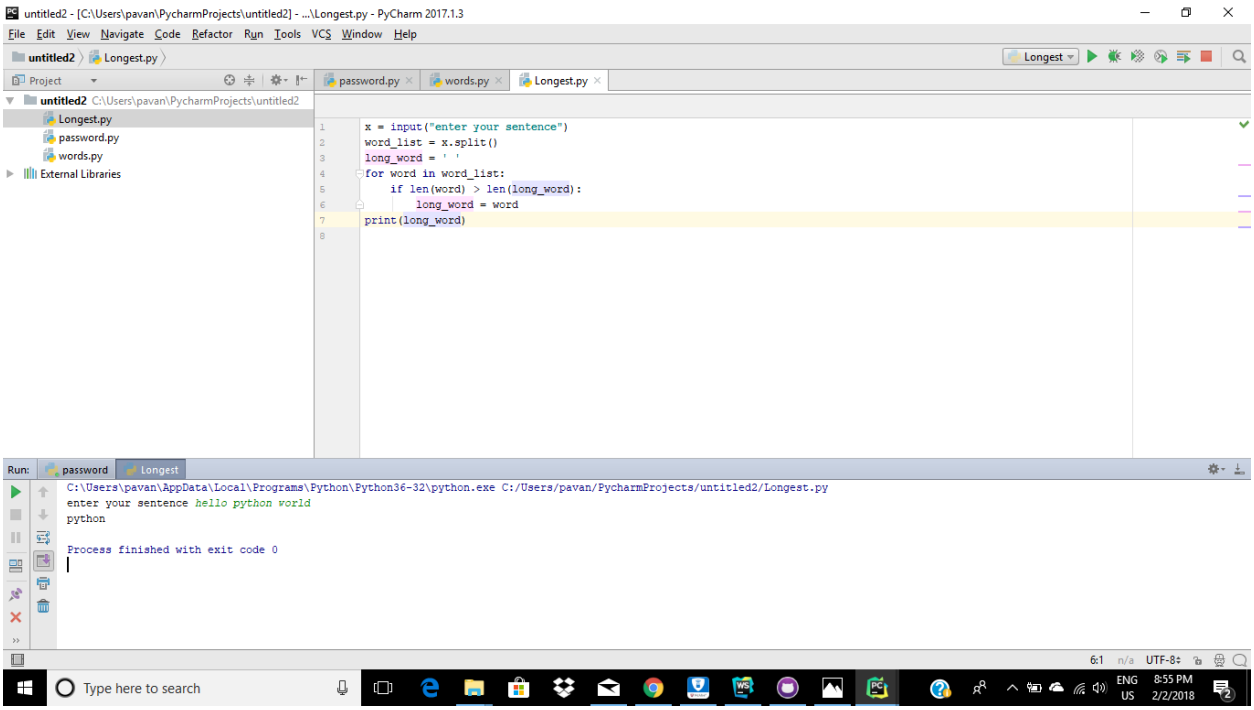
Programs

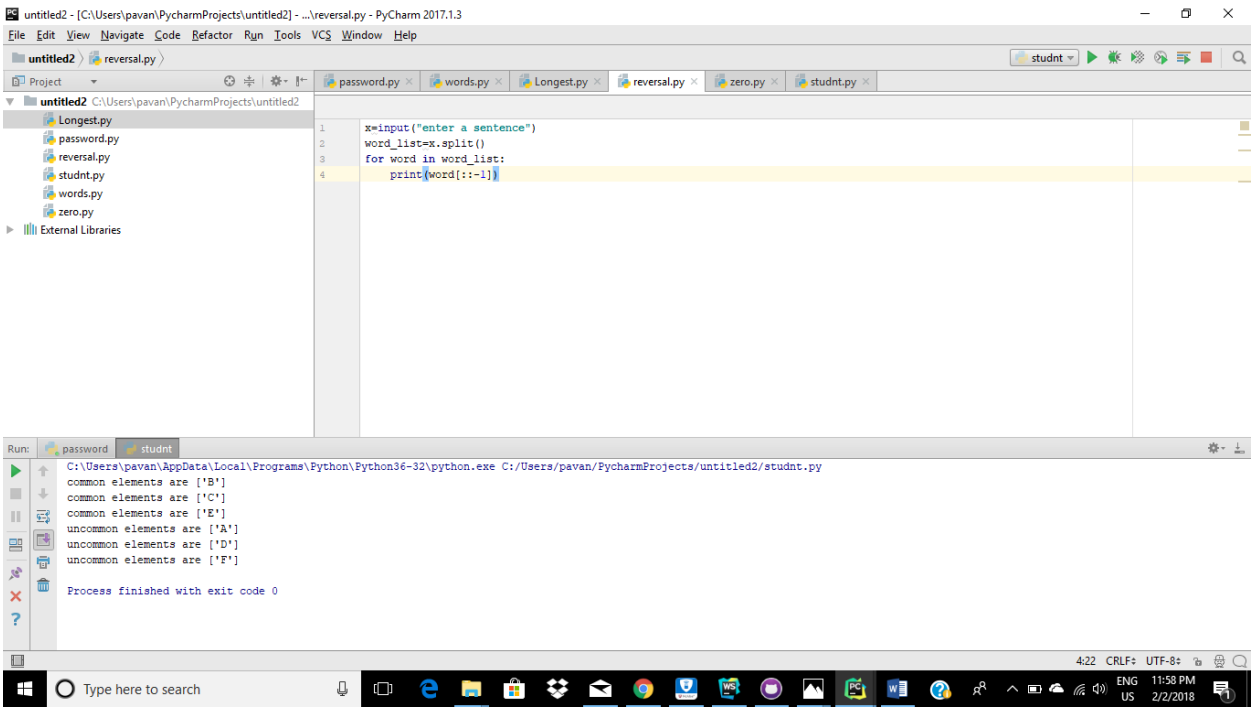
1)CODE and OUTPUT:



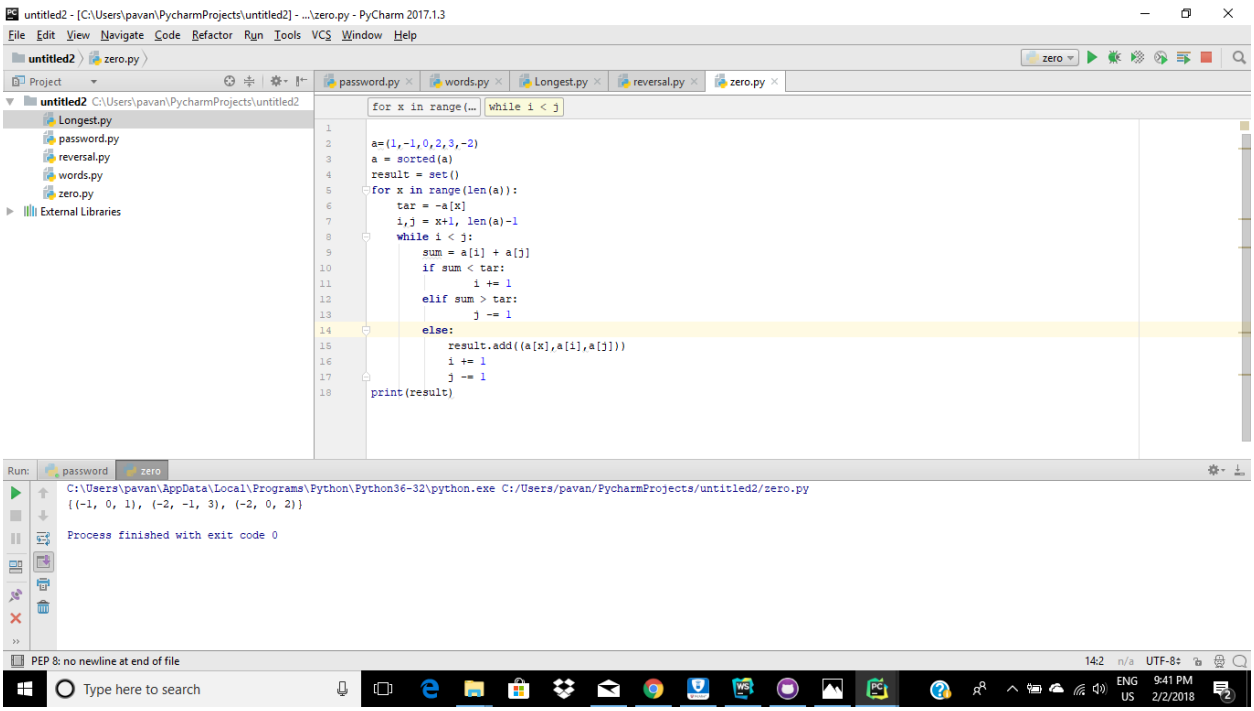
2)


untitled2 - [C:\Users\pavan\PycharmProjects\untitled2] - ...\words.py - PyCharm 2017.1.3
File Edit View Navigate Code Refactor Run Tools VCS Window Help
untitled2 words.py
words
Project
password.py
words.py
untitled2 C:\Users\pavan\PycharmProjects\untitled2
password.py
words.py
External Libraries
if (y%2==0)
x = input("enter your sentence")
word_list = x.split()
y=len(word_list)
if(y%2==0):
first = int(y/2)
sec = int(y/2)-1
print("the length of the sentence is",len(word_list))
print("the middle words are",word_list[sec],"and",word_list[first])
else:
z=int((y/2))
print("the length of the sentence is",len(word_list))
print("the middle word is",word_list[z])
Run: password words
C:\Users\pavan\AppData\Local\Programs\Python\Python36-32\python.exe C:/Users/pavan/PycharmProjects/untitled2/words.py
enter your sentence a b c d
the length of the sentence is 4
the middle words are b and c
Process finished with exit code 0
PEP 8: missing whitespace after ','
7:1 n/a UTF-8
Type here to search
ENG US 8:49 PM 2/2/2018

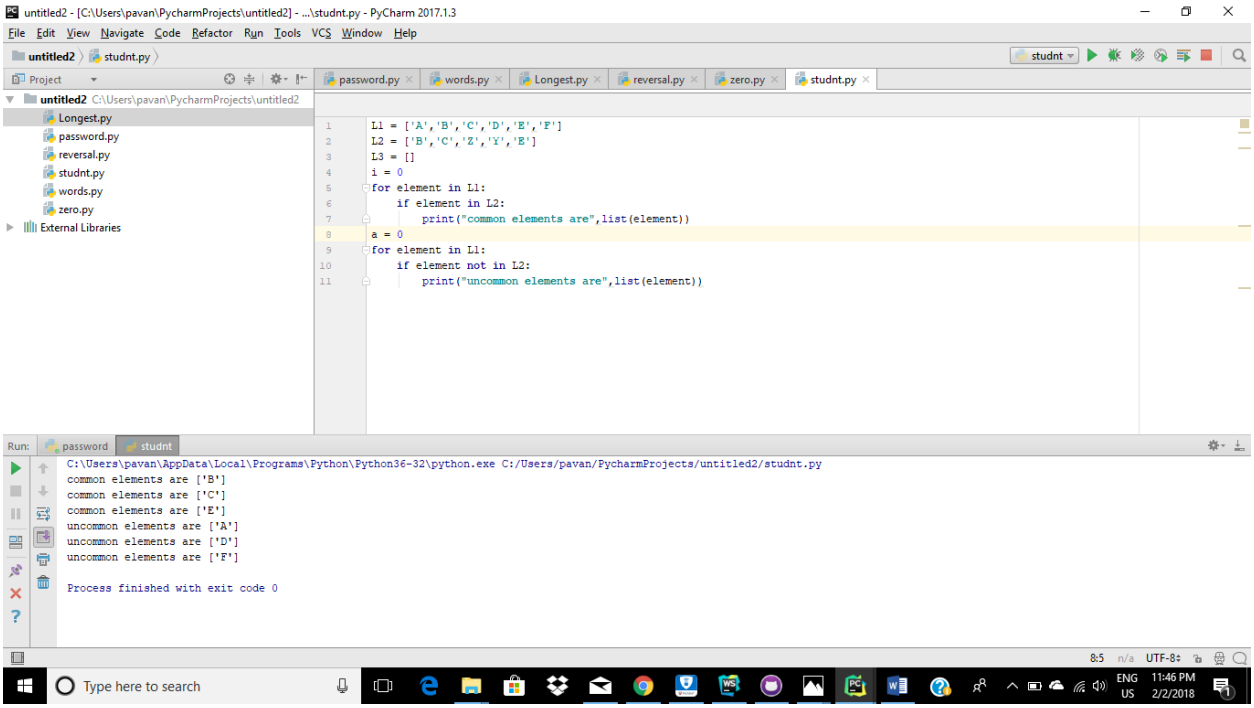

untitled2 - [C:\Users\pavan\PycharmProjects\untitled2] - ...\Longest.py - PyCharm 2017.1.3
File Edit View Navigate Code Refactor Run Tools VCS Window Help
untitled2 Longest.py
Longest
Project
password.py
words.py
Longest.py
untitled2 C:\Users\pavan\PycharmProjects\untitled2
Longest.py
password.py
words.py
External Libraries
x = input("enter your sentence")
word_list = x.split()
long_word = ' '
for word in word_list:
if len(word) > len(long_word):
long_word = word
print(long_word)
Run: password Longest
C:\Users\pavan\AppData\Local\Programs\Python\Python36-32\python.exe C:/Users/pavan/PycharmProjects/untitled2/Longest.py
enter your sentence hello python world
python
Process finished with exit code 0
6:1 n/a UTF-8
Type here to search
ENG US 8:55 PM 2/2/2018


untitled2 - [C:\Users\pavan\PycharmProjects\untitled2] - ...\reversal.py - PyCharm 2017.1.3
File Edit View Navigate Code Refactor Run Tools VCS Window Help
untitled2 reversal.py
studnt
Project
password.py words.py Longest.py reversal.py zero.py studnt.py
untitled2 C:\Users\pavan\PycharmProjects\untitled2
Longest.py
password.py
reversal.py
studnt.py
words.py
zero.py
External Libraries
x=input("enter a sentence")
word_list=x.split()
for word in word_list:
print(word[::-1])
Run: password studnt
C:\Users\pavan\AppData\Local\Programs\Python\Python36-32\python.exe C:/Users/pavan/PycharmProjects/untitled2/studnt.py
common elements are ['B']
common elements are ['C']
common elements are ['E']
uncommon elements are ['A']
uncommon elements are ['D']
uncommon elements are ['F']
Process finished with exit code 0
4:22 CRLF UTF-8
Type here to search
ENG US 11:58 PM 2/2/2018

3)


untitled2 - [C:\Users\pavan\PycharmProjects\untitled2] - ...\zero.py - PyCharm 2017.1.3
File Edit View Navigate Code Refactor Run Tools VCS Window Help
untitled2 zero.py
zero
Project
password.py words.py Longest.py reversal.py zero.py
for x in range(... while i < j
untitled2 C:\Users\pavan\PycharmProjects\untitled2
Longest.py
password.py
reversal.py
words.py
zero.py
External Libraries
a=(1,-1,0,2,3,-2)
a = sorted(a)
result = set()
for x in range(len(a)):
tar = -a[x]
i,j = x+1, len(a)-1
while i < j:
sum = a[i] + a[j]
if sum < tar:
i += 1
elif sum > tar:
j -= 1
else:
result.add((a[x],a[i],a[j]))
i += 1
j -= 1
print(result)
Run: password zero
C:\Users\pavan\AppData\Local\Programs\Python\Python36-32\python.exe C:/Users/pavan/PycharmProjects/untitled2/zero.py
{(-1, 0, 1), (-2, -1, 3), (-2, 0, 2)}
Process finished with exit code 0
PEP 8: no newline at end of file
14:2 n/a UTF-8
Type here to search
ENG US 9:41 PM 2/2/2018

4)



Deployment:

The code is run on pycharm platform.

References:

https://stackoverflow.com/questions/16312730/comparing-two-lists-and-only-printing-the-differences-xoring-two-lists

https://stackoverflow.com/questions

https://geeksforgeeks.com

https://w3schools.com