

EXPERIMENT N0-6

Write a python program to implement the following:

1:To read content of one file and write to another file.

SOURCE CODE:-

```
with open('input.txt','r') as f:
```

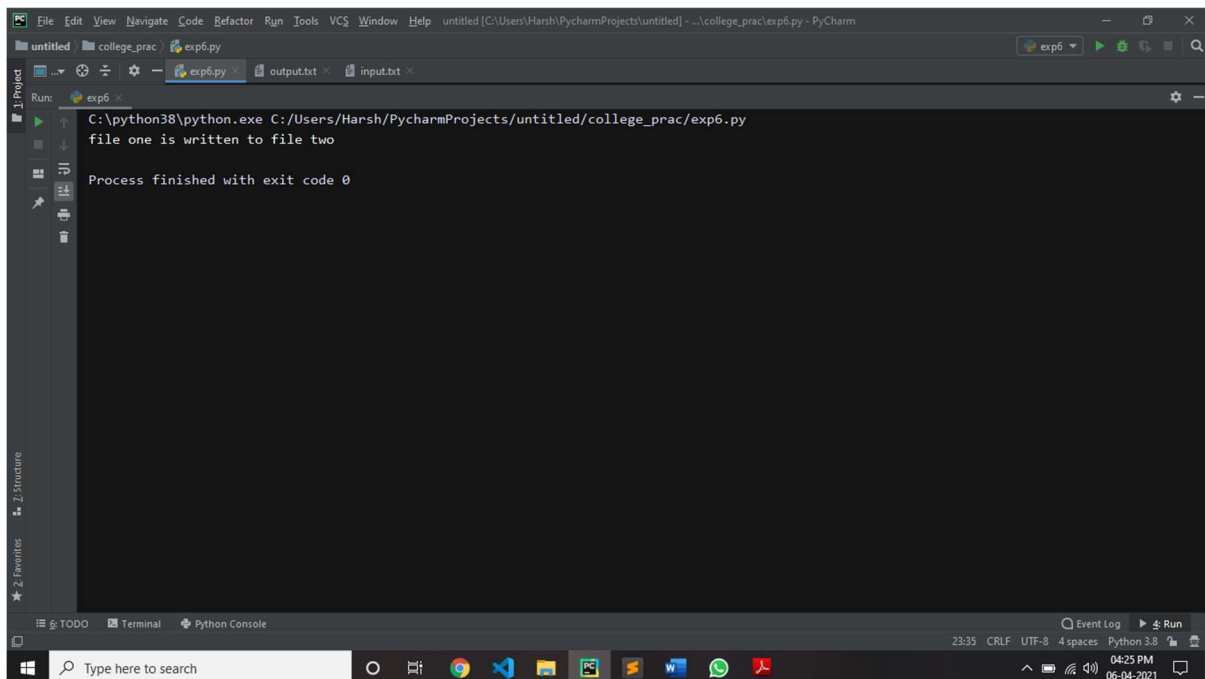
```
    text=f.read()
```

```
with open('output.txt','w') as o:
```

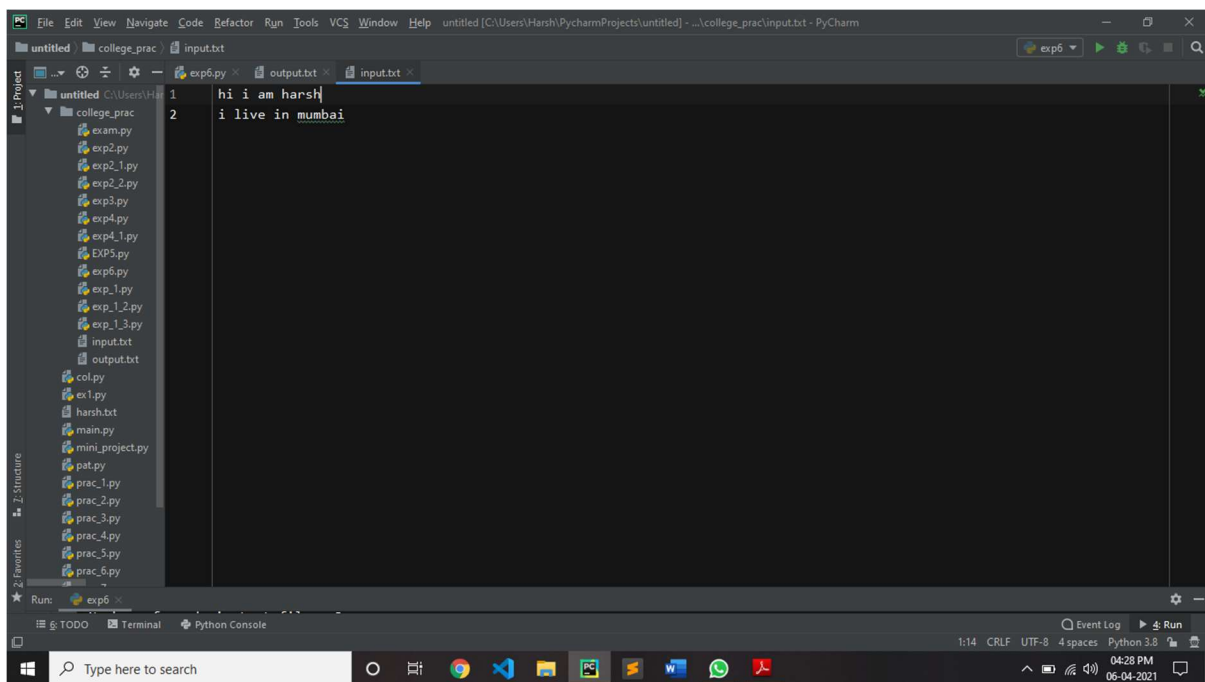
```
    o.write(text)
```

```
print("file one is written to file two")
```

OUTPUT:



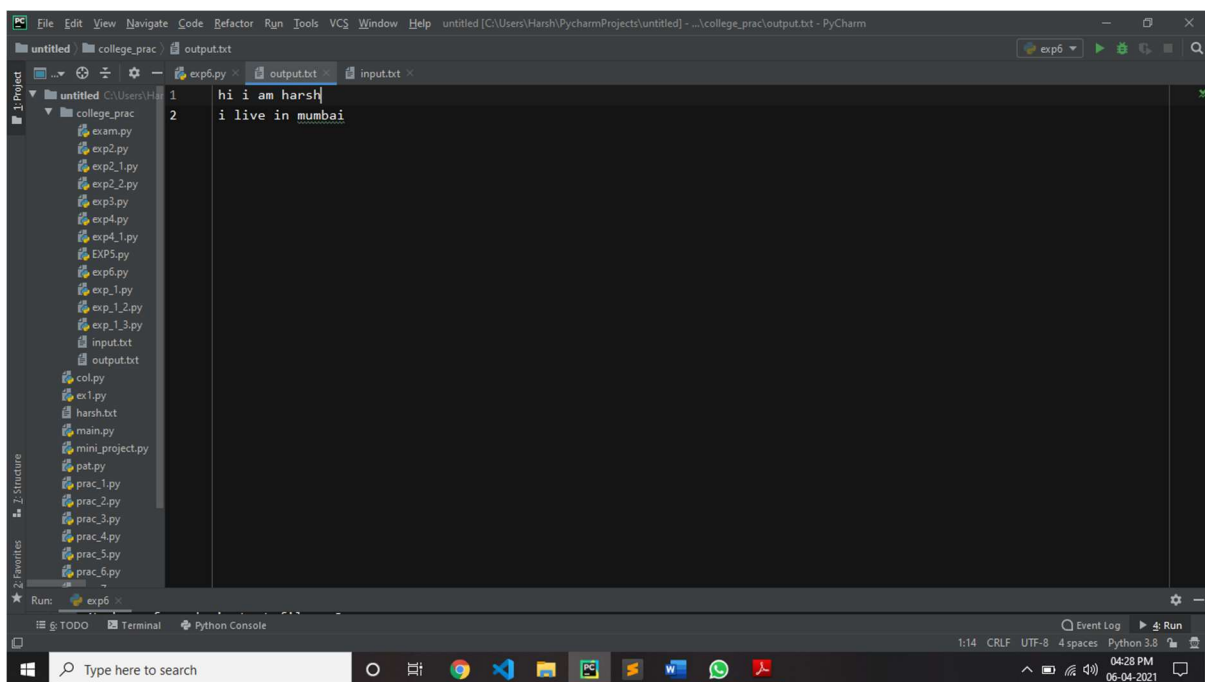
INPUT.TXT



A screenshot of the PyCharm IDE interface. The main editor window displays the content of 'input.txt' with two lines of text: '1 hi i am harsh' and '2 i live in mumbai'. The file explorer on the left shows a project structure with a 'college_prac' directory containing various Python files. The bottom status bar indicates the file encoding is UTF-8 with 4 spaces, and the Python version is 3.8. The system tray at the bottom right shows the time as 04:28 PM on 06-04-2021.

```
1 hi i am harsh
2 i live in mumbai
```

OUTPUT.TXT



A screenshot of the PyCharm IDE interface, similar to the one above, but showing the content of 'output.txt'. The main editor window displays the same two lines of text: '1 hi i am harsh' and '2 i live in mumbai'. The file explorer on the left shows the same project structure. The bottom status bar and system tray information are identical to the previous screenshot.

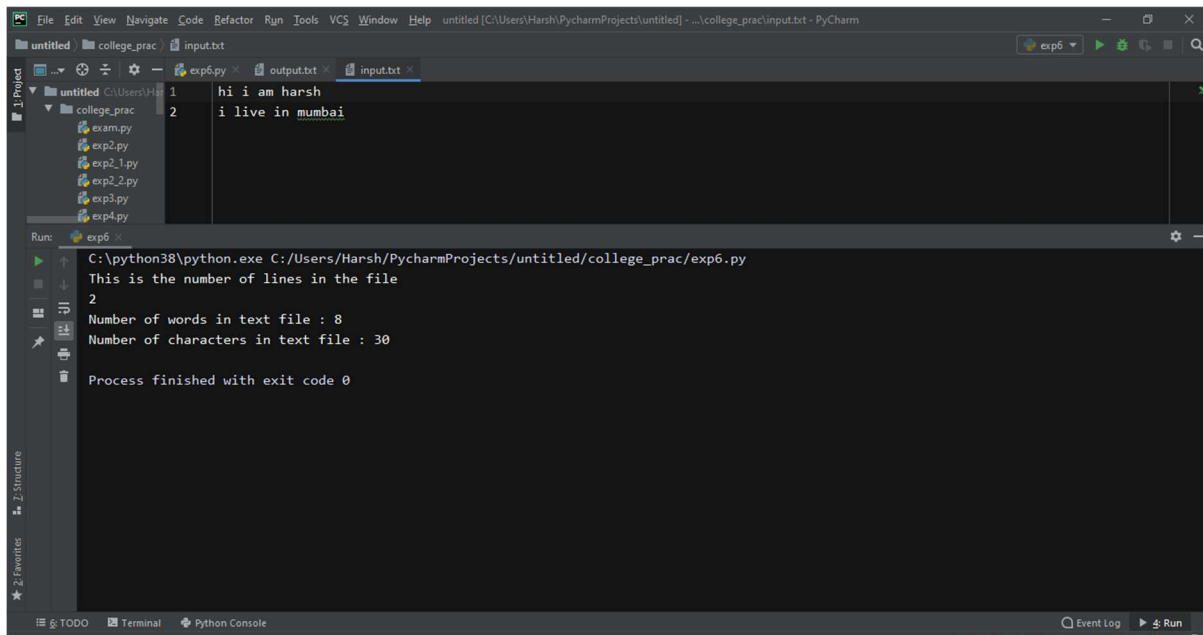
```
1 hi i am harsh
2 i live in mumbai
```

b) Count number of lines, words and characters in a file.

SOURCE CODE:

```
file = open("input.txt", "r")
Counter = 0
Content = file.read()
CoList = Content.split("\n")
for i in CoList:
    if i:
        Counter += 1
print("This is the number of lines in the file")
print(Counter)
b = open("input.txt", "rt")
c = b.read()
words= c.split()
print('Number of words in text file :', len(words))
x = open("input.txt", "r")
data = x.read()
number_of_characters = len(data)
print('Number of characters in text file :', number_of_characters)
```

OUTPUT:



The screenshot shows the PyCharm IDE interface. The top toolbar includes menus for File, Edit, View, Navigate, Code, Refactor, Run, Tools, VCS, Window, and Help. The main editor window displays a file named `input.txt` with the following content:

```
1 hi i am harsh
2 i live in mumbai
```

The left sidebar shows the project structure with a folder named `college_prac` containing several Python files: `exam.py`, `exp2.py`, `exp2.1.py`, `exp2.2.py`, `exp3.py`, and `exp4.py`. The bottom panel shows the output of a Python script (`exp6.py`) executed in the Run console. The output is as follows:

```
C:\python38\python.exe C:/Users/Harsh/PycharmProjects/untitled/college_prac/exp6.py
This is the number of lines in the file
2
Number of words in text file : 8
Number of characters in text file : 30
Process finished with exit code 0
```

The bottom status bar indicates the current state of the IDE, including tabs for TODO, Terminal, and Python Console, along with an Event Log and a Run button.

c) To display files available in current directory.

SOURCE CODE:

```
import os  
  
k = os.listdir('.')  
  
print(k)
```

OUTPUT:

