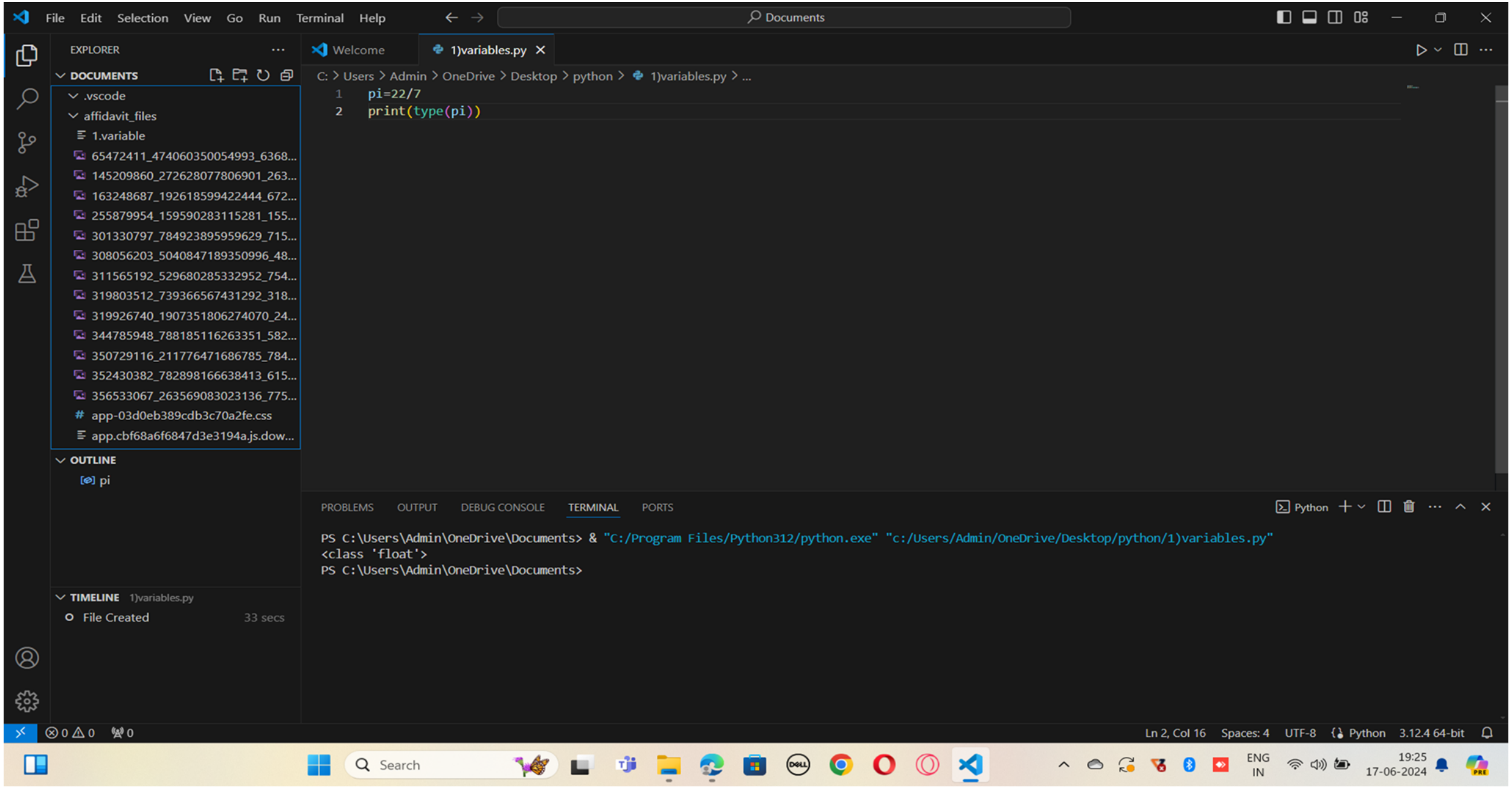
TASK 1(BEGINNER)

1)VARIABLES
2)NUMBERS
3)LIST
4)IF CONDITION
6)DICTIONARY


File Edit Selection View Go Run Terminal Help
Documents
EXPLORER
DOCUMENTS
.vscode
affidavit_files
1.variable
65472411_474060350054993_6368...
145209860_272628077806901_263...
163248687_192618599422444_672...
255879954_159590283115281_155...
301330797_784923895959629_715...
308056203_5040847189350996_48...
311565192_529680285332952_754...
319803512_739366567431292_318...
319926740_1907351806274070_24...
344785948_788185116263351_582...
350729116_211776471686785_784...
352430382_782898166638413_615...
356533067_263569083023136_775...
app-03d0eb389cdb3c70a2fe.css
app.cbf68a6f6847d3e3194a.js.dow...
OUTLINE
pi
TIMELINE 1)variables.py
File Created 33 secs
Welcome
1)variables.py
C: > Users > Admin > OneDrive > Desktop > python > 1)variables.py > ...
1 pi=22/7
2 print(type(pi))
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Desktop/python/1)variables.py"
<class 'float'>
PS C:\Users\Admin\OneDrive\Documents>
Ln 2, Col 16 Spaces: 4 UTF-8 Python 3.12.4 64-bit
Search
ENG
IN
19:25
17-06-2024

File Edit Selection View Go Run Terminal Help

Documents

EXPLORER

OPEN EDITORS
- Welcome
- 1)variables.py C:\Users\Admin\O...
- 2)variables.py 2

DOCUMENTS

OUTLINE

No symbols found in document '2)variables.py'

TIMELINE 2)variables.py

File Created now

Welcome | 1)variables.py | 2)variables.py 2

2)variables.py

```
1  for=4
2
```

PROBLEMS 2 OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/2)variables.py"
  File "c:\Users\Admin\OneDrive\Documents\2)variables.py", line 1
    for=4
       ^
SyntaxError: invalid syntax
PS C:\Users\Admin\OneDrive\Documents>
```

Python
Python

⊗2 ⚠0 0

Spaces: 4 UTF-8 Python 3.12.4 64-bit

Search

ENG IN

19:32 17-06-2024

File Edit Selection View Go Run Terminal Help

Documents

EXPLORER

OPEN EDITORS
- Welcome
- 1)variables.py C:\Users\Admin\O...
- 3)variable.py

DOCUMENTS

OUTLINE
- principal
- rate_of_interest
- time
- simple_interest

TIMELINE 3)variable.py
- File Saved now
- File Saved 1 min
- File Created 2 mins

Welcome | 1)variables.py | 3)variable.py

3)variable.py > ...

```
1  principal=5000
2  rate_of_interest=4
3  time=3
4  simple_interest=(principal*rate_of_interest*time)/100
5  print("simple interest for 3 years is:",simple_interest)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python

```
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/3)variable.py"
simple interest for 3 years is: 600.0
PS C:\Users\Admin\OneDrive\Documents>
```

0 0 0

Ln 5, Col 57 Spaces: 4 UTF-8 CRLF Python 3.12.4 64-bit

Search

ENG IN 19:42 17-06-2024

File Edit Selection View Go Run Terminal Help

Documents

EXPLORER

OPEN EDITORS
- Welcome
- 2)numbers.py

DOCUMENTS

OUTLINE
- format_string
  - n
  - c
  - formatted_string
- result

TIMELINE 2)numbers.py
- File Saved now
- File Saved 3 mins
- File Saved 45 mins
- File Saved
- File Saved 49 mins
- File Saved
- File Saved 50 mins
- File Saved
- File Created 57 mins

Welcome | 2)numbers.py

2)numbers.py > ...

```
1  def format_string(n,c):
2      formatted_string=f"{n},{c}"
3      return formatted_string
4  result=format_string(145,'o')
5  print(result)
6
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python

```
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/2)numbers.py"
145,o
PS C:\Users\Admin\OneDrive\Documents>
```

0 0 0

Ln 5, Col 14 Spaces: 4 UTF-8 CRLF Python 3.12.4 64-bit

Search

ENG IN

20:43 17-06-2024

File Edit Selection View Go Run Terminal Help

Documents

EXPLORER

OPEN EDITORS
- Welcome
- 2)numbers.py
- 2.2)number.py

DOCUMENTS

OUTLINE
- r
- a
- water_per_squaremeter
- water_in_the_pond

TIMELINE 2.2)number.py
- File Saved now
- File Saved 33 secs
- File Created 1 min

Welcome | 2)numbers.py | 2.2)number.py

2.2)number.py > ...

```
1  r=84
2  print("radius:",r)
3  a=3.14*r*r
4  print("Area of circular pond with radius 84m is:",int(a))
5  print("\n")
6  water_per_squaremeter=1.4
7  print("water per square meter:",water_per_squaremeter)
8  water_in_the_pond=a*water_per_squaremeter
9  print("water in the pond is:",int(water_in_the_pond))
10
11
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python

```
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/2.2)number.py"
radius: 84
Area of circular pond with radius 84m is: 22155


water per square meter: 1.4
water in the pond is: 31018
PS C:\Users\Admin\OneDrive\Documents>
```

Ln 6, Col 26 Spaces: 4 UTF-8 CRLF Python 3.12.4 64-bit

Search

ENG IN 21:08 17-06-2024

File Edit Selection View Go Run Terminal Help

Documents

EXPLORER

OPEN EDITORS
- Welcome
- 2)numbers.py
- 2.2)number.py
- 2.3)number.py

DOCUMENTS

OUTLINE
- distance
- t
- speed

TIMELINE 2.3)number.py
- File Saved now
- File Saved 53 secs
- File Created 5 mins

Welcome | 2)numbers.py | 2.2)number.py | 2.3)number.py

2.3)number.py > ...

```
1  distance=490
2  print("distance:",distance)
3  t=7*60
4  print("time:",t)
5  speed=distance/t
6  print("speed in meter per second:",int(speed))
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python

```
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/2.3)number.py"
distance: 490
time: 420
speed in meter per second: 1
PS C:\Users\Admin\OneDrive\Documents>
```

0 0 0

Ln 7, Col 1 Spaces: 4 UTF-8 CRLF Python 3.12.4 64-bit

Search

ENG IN 21:19 17-06-2024

File Edit Selection View Go Run Terminal Help

Search

3)list.py

C: > Users > Admin > OneDrive > Documents > .vscode > 3)list.py > ...

```python
justice_league=["Superman","Batman","Wonder Women","Flash","Aquaman","Green Latern"]
print(1)
number_of_members=len(justice_league)
print("Number of members in justice_league: ",number_of_members)
print(justice_league)
print(2)
justice_league.append("Batgirl")
justice_league.append("Nightwing")
print("After recuritting the new members are:  ",justice_league)
print(justice_league)
print(3)
justice_league.remove("Wonder Women")
justice_league.insert(0,"Wonder Women")
print(justice_league)
print(4)
justice_league.remove("Superman")
justice_league[4]=("Superman")
print(justice_league)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python

```
PS C:\Users\Admin> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/.vscode/3)list.py"
1
Number of members in justice_league:  6
['Superman', 'Batman', 'Wonder Women', 'Flash', 'Aquaman', 'Green Latern']
2
After recuritting the new members are:   ['Superman', 'Batman', 'Wonder Women', 'Flash', 'Aquaman', 'Green Latern', 'Batgirl', 'Nightwing']
['Superman', 'Batman', 'Wonder Women', 'Flash', 'Aquaman', 'Green Latern', 'Batgirl', 'Nightwing']
3
['Wonder Women', 'Superman', 'Batman', 'Flash', 'Aquaman', 'Green Latern', 'Batgirl', 'Nightwing']
4
['Wonder Women', 'Batman', 'Flash', 'Aquaman', 'Superman', 'Batgirl', 'Nightwing']
5
['Cyborg', 'Shazam', 'Hawkgirl', 'Martian Manhunter', 'Green Arrow']
6
['Cyborg', 'Green Arrow', 'Hawkgirl', 'Martian Manhunter', 'Shazam']
New leader is:  Cyborg
PS C:\Users\Admin>
```

Ln 24, Col 22 Spaces: 4 UTF-8 CRLF Python 3.12.4 64-bit

Search

ENG IN 19:17 18-06-2024

File Edit Selection View Go Run Terminal Help

Documents

EXPLORER

OPEN EDITORS
- Welcome
- 2)numbers.py
- 2.2)number.py
- 2.3)number.py
- 4.1)if condition.py

DOCUMENTS

OUTLINE
- height
- weight
- BMI

TIMELINE 4.1)if condition.py
- File Saved now
- File Saved 1 min
- File Saved 2 mins
- File Saved 4 mins
- File Saved 5 mins
- File Saved 7 mins
- File Created 12 mins

Welcome | 2)numbers.py | 2.2)number.py | 2.3)number.py | 4.1)if condition.py

4.1)if condition.py > ...

```python
height=float(input("enter height in meters:"))
weight=float(input("enter weight in kilograms:"))
BMI=weight/(height*height)
if (BMI>=30):
    print("obesity")
if (BMI>25 and BMI<=29):
    print("overweight")
if (BMI>=18.5 and BMI<=25):
    print("normal")
if (BMI<18.5):
    print("underweight")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python

```
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/4.1)if condition.py"
enter height in meters:1.75
enter weight in kilograms:70
normal
PS C:\Users\Admin\OneDrive\Documents>
```

Ln 10, Col 15 Spaces: 4 UTF-8 CRLF Python 3.12.4 64-bit

Search

ENG IN 21:43 17-06-2024

File Edit Selection View Go Run Terminal Help

Documents

EXPLORER

OPEN EDITORS
- Welcome
- 2)numbers.py
- 2.2)number.py
- 2.3)number.py
- 4.1)if condition.py
- 4.2) if condition.py

DOCUMENTS

OUTLINE
- australia
- uae
- india
- c

TIMELINE 4.2) if condition.py
- File Saved now
- File Saved
- File Saved 2 mins
- File Created 20 hrs

Welcome | 2)numbers.py | 2.2)number.py | 2.3)number.py | 4.1)if condition.py | 4.2) if condition.py

4.2) if condition.py > ...

```python
australia=["Sydney","Melborne","Brisbane","Pernth"]
uae=["Dubai","Abu Dhabi","Sharjah","Ajman"]
india=["Mumbai","Bangalore","Chennai","Delhi"]
c=input("Enter the city name: ")
if c in australia:
    print(c,"is in Australia")
if c in uae:
    print(c, "is in Uae")
if c in india:
    print(c,"is in India")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python

```
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/4.2) if condition.py"
Enter the city name: Abu Dhabi
Abu Dhabi is in Uae
PS C:\Users\Admin\OneDrive\Documents>
```

0 0 0

Ln 10, Col 27 Spaces: 4 UTF-8 CRLF Python 3.12.4 64-bit

Search

ENG IN 18:06 18-06-2024

File Edit Selection View Go Run Terminal Help

Documents

EXPLORER

OPEN EDITORS
- Welcome
- 2)numbers.py
- 2.2)number.py
- 2.3)number.py
- 4.1)if condition.py
- 4.2) if condition.py
- 4.3)if condition.py .vscode

DOCUMENTS

OUTLINE
- a
- u
- i
- c1
- c2

TIMELINE 4.3)if condition.py
- File Saved 41 secs

Welcome | 2)numbers.py | 2.2)number.py | 2.3)number.py | 4.1)if condition.py | 4.2) if condition.py | 4.3)if condition.py

.vscode > 4.3)if condition.py > ...

```python
a=["Sydney","Melborne","Brisbane","Pernth"]
u=["Dubai","Abu dhabi","Sharjhah","Ajman"]
i=["Mumbai","Bangalore","Chennai","Delhi"]
c1=input("Enter the first city: ")
c2=input("Enter the second city: ")
if c1 in a and c2 in a:
    print("Both cities are in Australia")
elif c1 in u and c2 in u:
    print("Both cities are in Uae")
elif c1 in i and c2 in i:
    print("Both cities are in India")
else:
    print("Both cities are not same country")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python

```
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/.vscode/4.3)if condition.py"
Enter the first city: Mumbai
Enter the second city: Chennai
Both cities are in India
PS C:\Users\Admin\OneDrive\Documents> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/.vscode/4.3)if condition.py"
Enter the first city: Sydney
Enter the second city: Dubai
Both cities are not same country
PS C:\Users\Admin\OneDrive\Documents>
```

0 0 0

Ln 13, Col 46 Spaces: 4 UTF-8 CRLF Python 3.12.4 64-bit

Search

ENG IN 18:29 18-06-2024

3)list.py | 6.1)dict.py

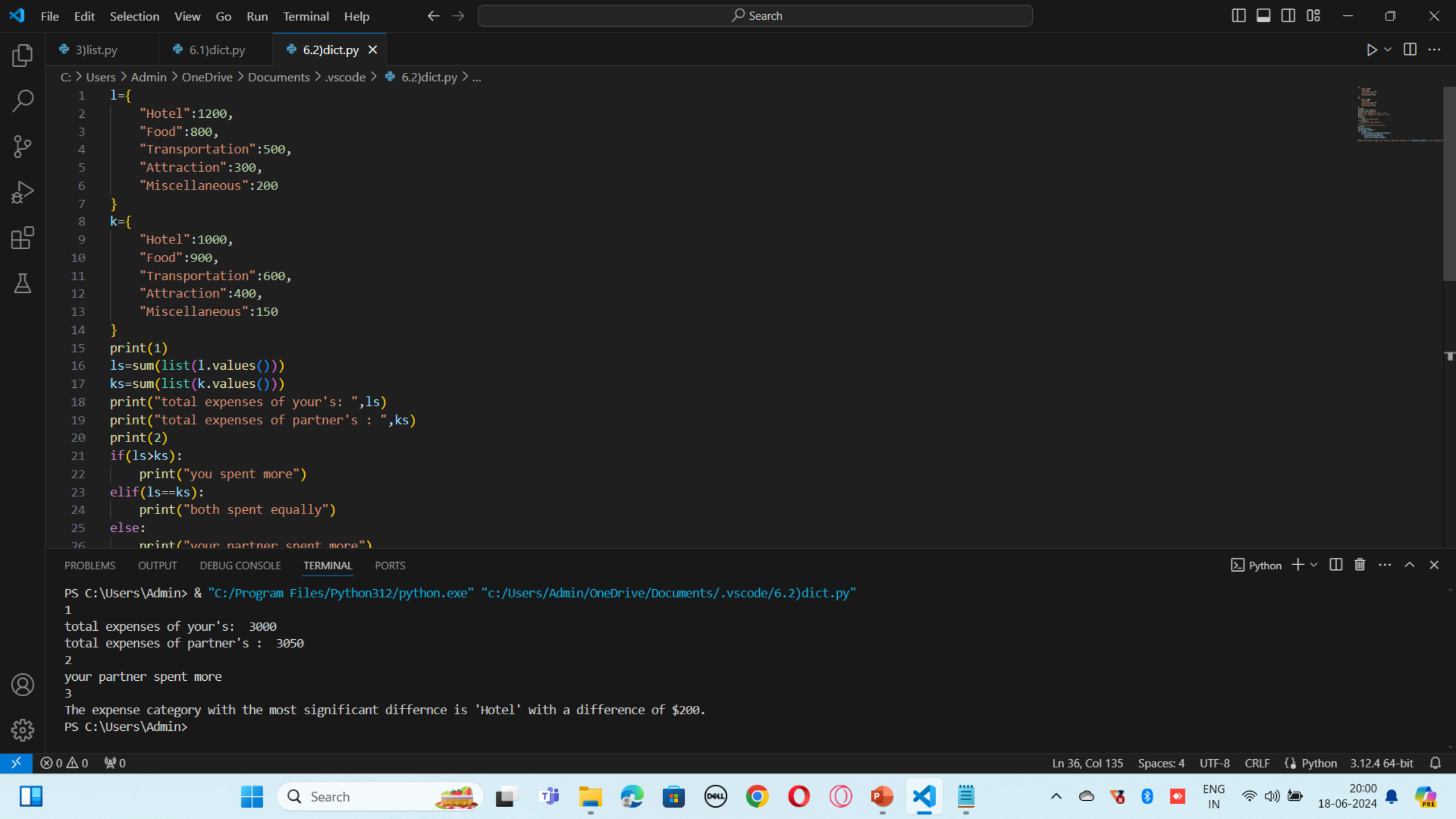
C: > Users > Admin > OneDrive > Documents > .vscode > 6.1)dict.py > ...

```python
list=["Aditya","John","Xavier","Ram","Rahul"]
tuple=[]
for i in list:
    a=(i,len(list))
    tuple.append(a)
print(list)
print(tuple)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

Python

```
PS C:\Users\Admin> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/.vscode/6.1)dict.py"
['Aditya', 'John', 'Xavier', 'Ram', 'Rahul']
[('Aditya', 5), ('John', 5), ('Xavier', 5), ('Ram', 5), ('Rahul', 5)]
PS C:\Users\Admin>
```


File Edit Selection View Go Run Terminal Help
Search
3)list.py
6.1)dict.py
6.2)dict.py
C: > Users > Admin > OneDrive > Documents > .vscode > 6.2)dict.py > ...
l={
"Hotel":1200,
"Food":800,
"Transportation":500,
"Attraction":300,
"Miscellaneous":200
}
k={
"Hotel":1000,
"Food":900,
"Transportation":600,
"Attraction":400,
"Miscellaneous":150
}
print(1)
ls=sum(list(l.values()))
ks=sum(list(k.values()))
print("total expenses of your's: ",ls)
print("total expenses of partner's : ",ks)
print(2)
if(ls>ks):
print("you spent more")
elif(ls==ks):
print("both spent equally")
else:
print("your partner spent more")
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS
Python
PS C:\Users\Admin> & "C:/Program Files/Python312/python.exe" "c:/Users/Admin/OneDrive/Documents/.vscode/6.2)dict.py"
1
total expenses of your's: 3000
total expenses of partner's : 3050
2
your partner spent more
3
The expense category with the most significant differnce is 'Hotel' with a difference of $200.
PS C:\Users\Admin>
Ln 36, Col 135 Spaces: 4 UTF-8 CRLF Python 3.12.4 64-bit
Search
ENG IN
20:00 18-06-2024