

EXPLORER

AGILETRIBERS-INTERNSHIP

- Sprint1
- Sprint2
  - Python\_Programming\_Task\_Practice - 1
  - Python\_Programming\_Task\_Practice - 2
    - 2Dtranspose.py
    - accmoddict.py
    - BMICalc.py
    - countprime2D.py
    - dictop.py
    - evenmulttable.py
    - GradeClass.py
    - mergedict.py
    - multtable.py
    - nesteddict.py
    - Palin2D.py
    - sortdict.py
    - SpiralOrderMatrixTraversal.py
    - wordfreq.py

2Dtranspose.py

```
Sprint2 > Python_Programming_Task_Practice - 2 > 2Dtranspose.py > ...
1 matrix=[[1,2,3],[4,5,6],[7,8,9]]
2 newmatrix=[[0 for _ in range (len(matrix))] for _ in range (len(matrix[0]))]
3 for i in range (0,len(matrix)):
4     for j in range(0,len(matrix[i])):
5         newmatrix[i][j]=matrix[j][i]
6
7 print(newmatrix)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 2/2Dtranspose.py"
[[1, 4, 7], [2, 5, 8], [3, 6, 9]]
PS D:\AgileTribers-Internship>
```

OUTLINE

TIMELINE

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TIMELINE

accmoddict.py

```
Sprint2 > Python_Programming_Task_Practice - 2 > accmoddict.py > ...
1  fruits = {'apple': 10, 'banana': 5, 'cherry': 15}
2
3  print(fruits['banana'])
4
5  fruits['orange']=8
6
7  fruits['apple']+=5
8
9  del fruits['cherry']
10
11 print(fruits)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 2/accmoddict.py"
5
{'apple': 15, 'banana': 5, 'orange': 8}
PS D:\AgileTribers-Internship>
```

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BMICalc.py

```
Sprint2 > Python_Programming_Task_Practice - 2 > BMICalc.py > ...
1 weight=float(input("Enter the weight (in kg) : "))
2 height=float(input("Enter the height (in m) : "))
3 BMI = weight / ( height ** 2 )
4 if BMI<18.5:
5     print(f"BMI: {BMI:.2f}\nCategory: Underweight")
6 elif BMI>=18.5 and BMI<=24.9:
7     print(f"BMI: {BMI:.2f}\nCategory: Normal weight")
8 elif BMI>=25 and BMI<=29.9:
9     print(f"BMI: {BMI:.2f}\nCategory: overweight")
10 else:
11     print(f"BMI: {BMI:.2f}\nCategory: Obesity")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 2/BMICalc.py"
Enter the weight (in kg) : 80
Enter the height (in m) : 1.8
BMI: 24.69
Category: Normal weight
PS D:\AgileTribers-Internship>
```

Python

Python

main

ndhineshkumar (2 minutes ago) Ln 11, Col 30 Spaces: 4 UTF-8 CRLF {} Python 3.13.1 64-bit Go Live

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countprime2D.py

```
Sprint2 > Python_Programming_Task_Practice - 2 > countprime2D.py > ...
1 def isprime(number):
2     if number<=1:
3         return False
4     else:
5         for i in range (2,int(number**0.5)+1):
6             if number%i==0:
7                 return False
8         return True
9
10
11
12 matrix = [ [2, 4, 5], [7, 9, 11], [13, 16, 19] ]
13 count=0
14 for i in range (len(matrix)):
15     for j in range (len(matrix[i])):
16         if isprime(matrix[i][j]):
17             count+=1
18
19 print("Total prime numbers: ",count)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python\_Programming\_Task\_Practice - 2/countprime2D.py"

Total prime numbers: 6

PS D:\AgileTribers-Internship>

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dictop.py

```
Sprint2 > Python_Programming_Task_Practice - 2 > dictop.py > ...
1 person={"name":"Alice",'age' : 25, 'city': "New York"}
2 person["email"]="alice@example.com"
3
4 person["age"]="26"
5
6 del person["city"]
7 print(person)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 2/dictop.py"
{'name': 'Alice', 'age': '26', 'email': 'alice@example.com'}
PS D:\AgileTribers-Internship>
```

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evenmulttable.py

```
Sprint2 > Python_Programming_Task_Practice - 2 > evenmulttable.py > ...  
1  for i in range (1,11):  
2      if i % 2 == 0:  
3          for j in range (1,11):  
4              if (i*j)%2==0:  
5                  print(f"{i * j:4}", end="")  
6      print()
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python\_Programming\_Task\_Practice - 2/evenmulttable.py"

```
2  4  6  8 10 12 14 16 18 20  
4  8 12 16 20 24 28 32 36 40  
6 12 18 24 30 36 42 48 54 60  
8 16 24 32 40 48 56 64 72 80  
10 20 30 40 50 60 70 80 90 100  
PS D:\AgileTribers-Internship>
```

Python  
Python



EXPLORER

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Gradeclass.py

Sprint2 > Python\_Programming\_Task\_Practice - 2 > Gradeclass.py > ...

```
1 score=float(input("Enter the score: "))
2 if score>=90 and score<=100:
3     print("Grade: A \nStatus: Pass")
4 elif score>=80 and score<=89:
5     print("Grade: B \nStatus: Pass")
6 elif score>=70 and score<=79:
7     print("Grade: C \nStatus: Pass")
8 elif score>=60 and score<=69:
9     print("Grade: D \nStatus: Fail")
10 else:
11     print("Grade: F \nStatus: Fail")
```

PROBLEMS

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```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 2/Gradeclass.py"
Enter the score: 80
Grade: B
Status: Pass
PS D:\AgileTribers-Internship> 
```

Python

Python

main

ndhineshkumar (3 minutes ago)

Ln 11, Col 20

Spaces: 4

UTF-8

CRLF

{ } Python

3.13.1 64-bit

Go Live

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mergedict.py

Sprint2 > Python\_Programming\_Task\_Practice - 2 > mergedict.py > merge\_dicts

```
1 def merge_dicts(dict1, dict2):
2     for i in dict2:
3         if i in dict1:
4             dict1[i]+=dict2[i]
5         else:
6             dict1[i]=dict2[i]
7     print(dict1)
8
9
10 dict1 = {'apple': 5, 'banana': 3, 'orange': 7}
11 dict2 = {'banana': 2, 'orange': 3, 'grape': 4}
12 merge_dicts(dict1, dict2)
```

PROBLEMS

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PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python\_Programming\_Task\_Practice - 2/mergedict.py"

{'apple': 5, 'banana': 5, 'orange': 10, 'grape': 4}

PS D:\AgileTribers-Internship>

OUTLINE

TIMELINE

main

0 0 0

ndhineshkumaar (3 minutes ago)

Ln 6, Col 29

Spaces: 4

UTF-8

CRLF

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multtable.py

```
Sprint2 > Python_Programming_Task_Practice - 2 > multtable.py > ...
1  for i in range(1, 11):
2      for j in range(1, 11):
3          print(f"{i * j:4}", end=" ")
4      print()
5
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 2/multtable.py"
1  2  3  4  5  6  7  8  9 10
2  4  6  8 10 12 14 16 18 20
3  6  9 12 15 18 21 24 27 30
4  8 12 16 20 24 28 32 36 40
5 10 15 20 25 30 35 40 45 50
6 12 18 24 30 36 42 48 54 60
7 14 21 28 35 42 49 56 63 70
8 16 24 32 40 48 56 64 72 80
9 18 27 36 45 54 63 72 81 90
10 20 30 40 50 60 70 80 90 100
PS D:\AgileTribers-Internship>
```

Python

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nesteddict.py

Sprint2 > Python\_Programming\_Task\_Practice - 2 > nesteddict.py > ...

```
1 employees = {
2     'E001': {'name': 'Alice', 'department': 'HR', 'salary': 50000},
3     'E002': {'name': 'Bob', 'department': 'IT', 'salary': 60000},
4     'E003': {'name': 'Charlie', 'department': 'Finance', 'salary': 55000}
5 }
6
7 def get_salary(employee_dict, emp_id):
8     if emp_id in employee_dict:
9         print("Salary of the given Emp ID :",employee_dict[emp_id]['salary'])
10    else:
11        print("EMP ID does not exist")
12
13 def increase_salary(employee_dict, percentage):
14     for i in employee_dict:
15         empname=employee_dict[i]['name']
16         incsalary=((percentage/100)*(employee_dict[i]['salary']))+(employee_dict[i]['salary'])
17         print("The Salary of ",empname, " after increasing ",percentage," is ", incsalary)
18
19 id= input("Enter the EMP ID : ")
20 per=10
21 get_salary(employees, id)
22 increase_salary(employees,per)
```

PROBLEMS

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PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python\_Programming\_Task\_Practice - 2/nesteddict.py"
Enter the EMP ID : E002
Salary of the given Emp ID : 60000
The Salary of Alice after increasing 10 is 55000.0
The Salary of Bob after increasing 10 is 66000.0
The Salary of Charlie after increasing 10 is 60500.0
PS D:\AgileTribers-Internship>

OUTLINE

TIMELINE

main

0 0 0

ndhineshkumar (3 minutes ago)

Ln 21, Col 26

Spaces: 4

UTF-8

CRLF

{ } Python

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Go Live

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Palin2D.py

```
Sprint2 > Python_Programming_Task_Practice - 2 > Palin2D.py > ...
1 matchatrix = [ ["madam", "apple", "racecar"], ["level", "hello", "civic"], ["world","deified", "rotor"] ]
2 for row in matchatrix:
3     for word in row:
4         if word == word[::-1]:
5             print(word," is a palindrome")
6         else:
7             print(word," is not a palindrome")
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 2/Palin2D.py"
madam is a palindrome
apple is not a palindrome
racecar is a palindrome
level is a palindrome
hello is not a palindrome
civic is a palindrome
world is not a palindrome
deified is a palindrome
rotor is a palindrome
PS D:\AgileTribers-Internship>
```

Python

Python

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sortdict.py

```
Sprint2 > Python_Programming_Task_Practice - 2 > sortdict.py > ...
1 marks = {'Alice': 85, 'Bob': 92, 'Charlie': 78, 'David': 90}
2 sorteddict=dict(sorted(marks.items(), key= lambda x:x[1], reverse=True))
3
4 print(sorteddict)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 2/sortdict.py"
{'Bob': 92, 'David': 90, 'Alice': 85, 'Charlie': 78}
PS D:\AgileTribers-Internship>
```

Python

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OUTLINE

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SpiralOrderMatrixTraversal.py

Sprint2 > Python\_Programming\_Task\_Practice - 2 > SpiralOrderMatrixTraversal.py > ...

```
1 matrix = [  
2     [1, 2, 3],  
3     [4, 5, 6],  
4     [7, 8, 9]  
5 ]  
6  
7 spiralorder = []  
8  
9 top = 0  
10 bottom = len(matrix) - 1  
11 left = 0  
12 right = len(matrix[0]) - 1  
13  
14 while top <= bottom and left <= right:  
15     for i in range(left, right + 1):  
16         spiralorder.append(matrix[top][i])  
17         top += 1  
18  
19     for i in range(top, bottom + 1):  
20         spiralorder.append(matrix[i][right])  
21         right -= 1  
22  
23     if top <= bottom:  
24         for i in range(right, left - 1, -1):
```

PROBLEMS

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```
PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python_Programming_Task_Practice - 2/SpiralOrderMatrixTra  
versal.py"  
[1, 2, 3, 6, 9, 8, 7, 4, 5]  
PS D:\AgileTribers-Internship> []
```

Python

Python

main

0 0 0

ndhineshkumar (4 minutes ago)

Ln 10, Col 25

Spaces: 4

UTF-8

CRLF

{ } Python

3.13.1 64-bit

Go Live

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wordfreq.py

Sprint2 > Python\_Programming\_Task\_Practice - 2 > wordfreq.py > ...

```
1 words="Hello world hello"
2 word=words.split()
3 freq={}
4
5 for i in word:
6     key=i.lower()
7     if key in freq:
8         freq[key]+=1
9     else:
10        freq[key]=1
11
12 print(freq)
```

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PS D:\AgileTribers-Internship> & D:/Python/python.exe "d:/AgileTribers-Internship/Sprint2/Python\_Programming\_Task\_Practice - 2/wordfreq.py"

{'hello': 2, 'world': 1}

PS D:\AgileTribers-Internship>

OUTLINE

TIMELINE

main

0 0 0

ndhineshkumar (4 minutes ago)

Ln 12, Col 12

Spaces: 4

UTF-8

CRLF

{ } Python

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Go Live