

File

Edit

Selection

View

Go

Run

Terminal

Help

pro\_sum.py - week2\_prgm - Visual Studio Code

pro\_sum.py

avg.py

mul\_table.py

palindrome.py

pattern2.py

pattern3.py

pattern1.py

pattern4.py

pattern5.py

pattern6.py

WEEK2\_PRGM

avg.py

demo.txt

demo2.txt

fact.py

file\_sample.py

fn\_sample.py

if\_sample.py

lamda\_sample.py

loop\_sample.py

mul\_table.py

odd\_even.py

palindrome.py

pattern1.py

pattern2.py

pattern3.py

pattern4.py

pattern5.py

pattern6.py

pos\_neg.py

pro\_sum.py

sum\_n.py

vow.py

OUTLINE

TIMELINE

pro\_sum.py > ...

1

num1=20

2

num2=30

3

sum=num1+num2

4

product=num1\*num2

5

print("sum is",sum)

6

print("product is",product)

PROBLEMS

OUTPUT

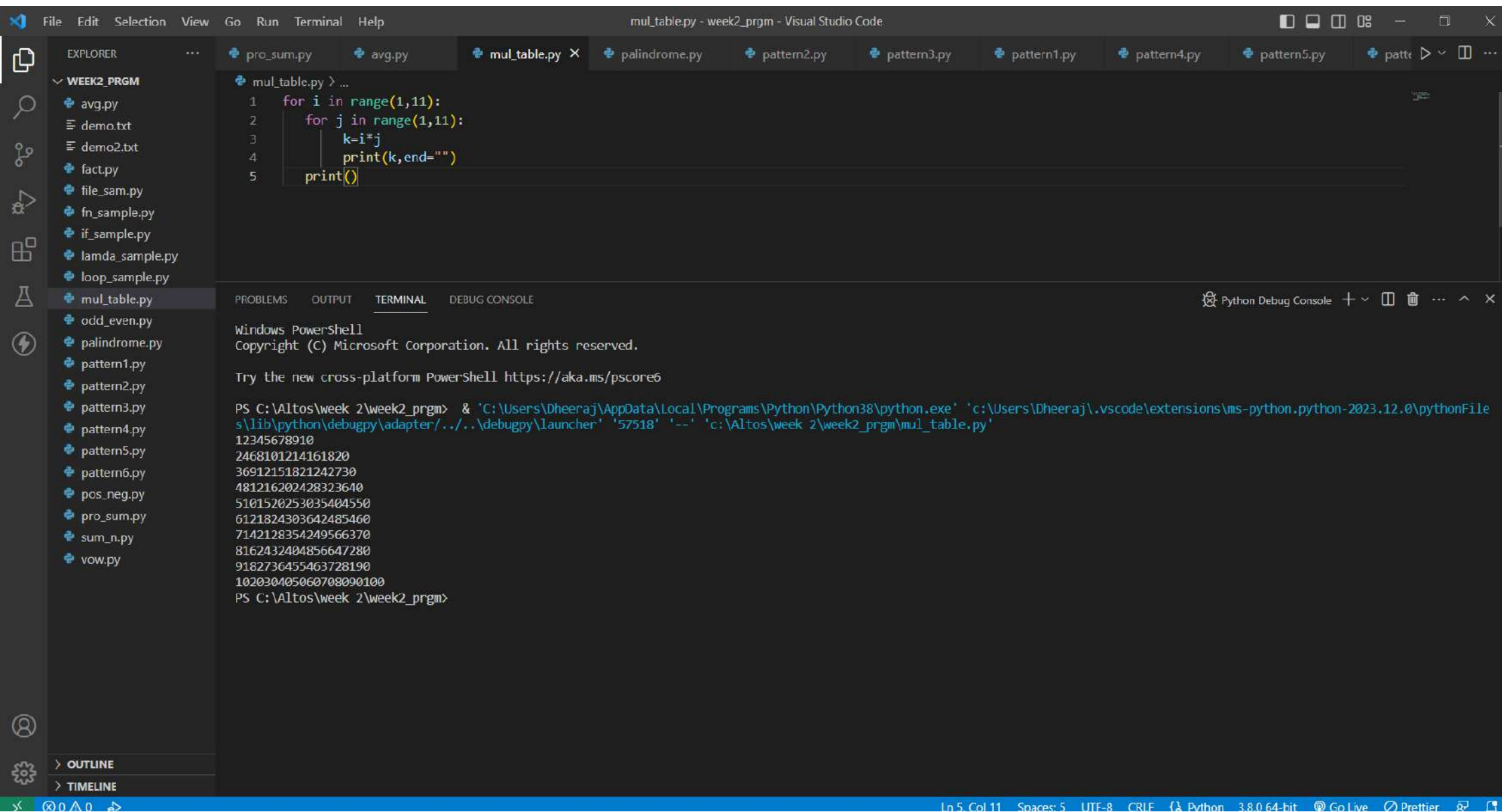
TERMINAL

DEBUG CONSOLE

Windows PowerShell  
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>  
  
PS C:\Altos\week 2\week2\_prgm> & 'C:\Users\Dheeraj\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\Dheeraj\.vscode\extensions\ms-python.python-2023.12.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '57490' '--' 'c:\Altos\week 2\week2\_prgm\pro\_sum.py'  
sum is 50  
product is 600  
PS C:\Altos\week 2\week2\_prgm>

powershell

Python Deb...



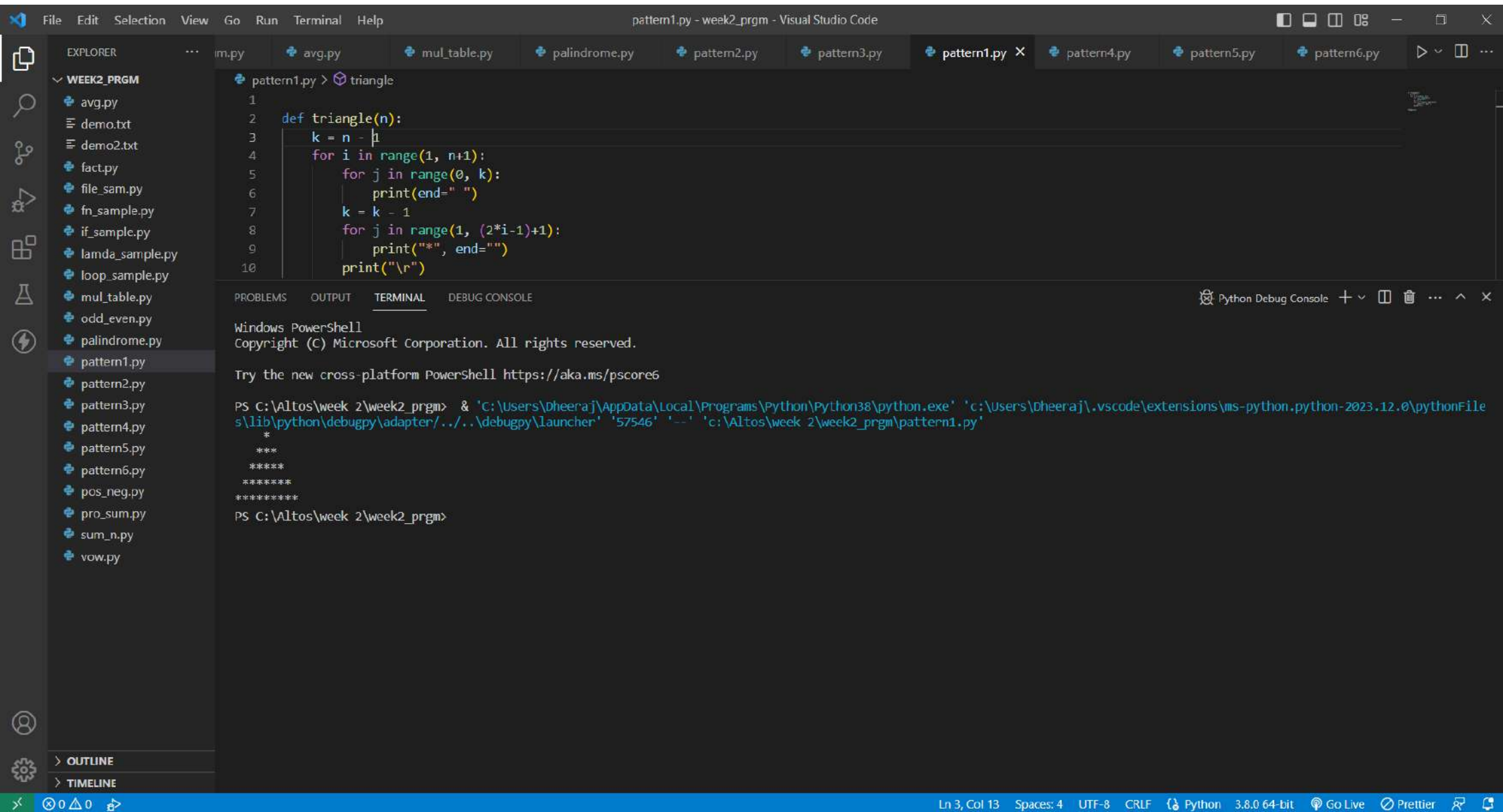
Visual Studio Code interface showing a Python project named "WEEK2\_PRGM". The Explorer sidebar lists files: avg.py, demo.txt, demo2.txt, fact.py, file\_sample.py, fn\_sample.py, if\_sample.py, lamda\_sample.py, loop\_sample.py, mul\_table.py, odd\_even.py, palindrome.py, pattern1.py, pattern2.py, pattern3.py, pattern4.py, pattern5.py, pattern6.py, pos\_neg.py, pro\_sum.py, sum\_n.py, and vow.py. The main editor displays the code for "palindrome.py":

```
1 num=int(input("enter the number"))
2 temp=num
3 rev=0
4 while(num>0):
5     rem=num%10
6     rev=rev*10+rem
7     num=num//10
8 if(temp==rev):
9     print("palindrome")
10 else:
```

The TERMINAL panel shows the execution of the program in Windows PowerShell:

```
PS C:\Altos\week 2\week2_prgm> & 'C:\Users\Dheeraj\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\Dheeraj\.vscode\extensions\ms-python.python-2023.12.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '57527' '--' 'c:\Altos\week 2\week2_prgm\palindrome.py'
enter the number121
palindrome
PS C:\Altos\week 2\week2_prgm> c::; cd 'c:\Altos\week 2\week2_prgm'; & 'C:\Users\Dheeraj\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\Dheeraj\.vscode\extensions\ms-python.python-2023.12.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '57536' '--' 'c:\Altos\week 2\week2_prgm\palindrome.py'
enter the number123
not palindrome
PS C:\Altos\week 2\week2_prgm>
```

The status bar at the bottom indicates the current file is "Ln 7, Col 14", using "Spaces: 4", "UTF-8" encoding, and "CRLF" line endings. The Python version is "3.8.0 64-bit".



File Edit Selection View Go Run Terminal Help

pattern2.py - week2\_prgm - Visual Studio Code

im.py avg.py mul\_table.py palindrome.py pattern2.py X pattern3.py pattern1.py pattern4.py pattern5.py pattern6.py

WEEK2\_PRGM

avg.py demo.txt demo2.txt fact.py file\_sample.py fn\_sample.py if\_sample.py lamda\_sample.py loop\_sample.py mul\_table.py odd\_even.py palindrome.py pattern1.py pattern2.py pattern3.py pattern4.py pattern5.py pattern6.py pos\_neg.py pro\_sum.py sum\_n.py vow.py

OUTLINE

TIMELINE

pattern2.py > ...

```
1 def pattern(n):
2     for i in range(0,n):
3         for j in range(0,i+1):
4             print("*",end="")
5         print("\n")
6
7 n=5
8 pattern(n) |
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Python Debug Console + -

Windows PowerShell  
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>  
  
PS C:\Altos\week 2\week2\_prgm> & 'C:\Users\Dheeraj\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\Dheeraj\.vscode\extensions\ms-python.python-2023.12.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '57556' '--' 'c:\Altos\week 2\week2\_prgm\pattern2.py'  
\*  
\*\*  
\*\*\*  
\*\*\*\*  
\*\*\*\*\*  
  
PS C:\Altos\week 2\week2\_prgm>

Ln 8, Col 12 Spaces: 4 UTF-8 CRLF Python 3.8.0 64-bit Go Live Prettier



File Edit Selection View Go Run Terminal Help

pattern3.py - week2\_prgm - Visual Studio Code

im.py avg.py mul\_table.py palindrome.py pattern2.py pattern3.py X pattern1.py pattern4.py pattern5.py pattern6.py

WEEK2\_PRGM

avg.py demo.txt demo2.txt fact.py file\_sample.py fn\_sample.py if\_sample.py lamda\_sample.py loop\_sample.py mul\_table.py odd\_even.py palindrome.py pattern1.py pattern2.py pattern3.py pattern4.py pattern5.py pattern6.py pos\_neg.py pro\_sum.py sum\_n.py vow.py

OUTLINE TIMELINE

pattern3.py > ...

```
1 def pattern(n):
2     for i in range(1,n+1):
3         for j in range(1,i+1):
4             print(j,end="")
5         print("\r")
6
7 n=5
8 pattern(n) |
```

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Python Debug Console

Windows PowerShell  
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>  
  
PS C:\Altos\week 2\week2\_prgm> & 'C:\Users\Dheeraj\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\Dheeraj\.vscode\extensions\ms-python.python-2023.12.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '57565' '--' 'c:\Altos\week 2\week2\_prgm\pattern3.py'  
1  
12  
123  
1234  
12345  
PS C:\Altos\week 2\week2\_prgm>

Ln 8, Col 12 Spaces: 4 LITE-8 CRLF Python 3.8.0.64-bit @ Go Live Prettier



File Edit Selection View Go Run Terminal Help

pattern5.py - week2\_prgm - Visual Studio Code

EXPLORER

WEEK2\_PRGM

avg.py

demo.txt

demo2.txt

fact.py

file\_sample.py

fn\_sample.py

if\_sample.py

lamda\_sample.py

loop\_sample.py

mul\_table.py

odd\_even.py

palindrome.py

pattern1.py

pattern2.py

pattern3.py

pattern4.py

pattern5.py

pattern6.py

pos\_neg.py

pro\_sum.py

sum\_n.py

vow.py

pattern5.py > ...

1

2 def pattern(n):

3     for i in range(1,n+1):

4         for j in range(n-i):

5             print(" ",end="")

6         for k in range(1,i+1):

7             print(k,end="")

8         print()

9     n=5

10  pattern(n)

PROBLEMS

OUTPUT

TERMINAL

DEBUG CONSOLE

Windows PowerShell

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Try the new cross-platform PowerShell <https://aka.ms/pscore6>

PS C:\Altos\week 2\week2\_prgm> & 'C:\Users\Dheeraj\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\Dheeraj\.vscode\extensions\ms-python.python-2023.12.0\pythonFile

s\lib\python\debugpy\adapter\..\..\debugpy\launcher' '57585' '--' 'c:\Altos\week 2\week2\_prgm\pattern5.py'

1

12

123

1234

12345

PS C:\Altos\week 2\week2\_prgm>

Python Debug Console

+

^

×

Ln 12, Col 1

Spaces: 4

UTF-8

CRLF

Python

3.8.0 64-bit

Go Live

Prettier



File Edit Selection View Go Run Terminal Help

pattern6.py - week2\_prgrm - Visual Studio Code

EXPLORER

WEEK2...

- avg.py
- demo.txt
- demo2.txt
- fact.py
- file\_sample.py
- fn\_sample.py
- if\_sample.py
- lamda\_sample.py
- loop\_sample.py
- mul\_table.py
- odd\_even.py
- palindrome.py
- pattern1.py
- pattern2.py
- pattern3.py
- pattern4.py
- pattern5.py
- pattern6.py
- pos\_neg.py
- pro\_sum.py
- sum\_n.py
- vow.py

OUTLINE

TIMELINE

pattern6.py > ...

```
1 n=5
2 k=(2 * n) - 2
3 for i in range(0, n):
4     for j in range(0, k):
5         print(end=" ")
6         k=k-1
7     for j in range(0,i+1):
8         print("* ",end="")
9     print(" ")
10 k = n - 2
11 for i in range(n,-1,-1):
12     for j in range(k,0,-1):
13         print(end=" ")
14         k = k + 1
15     for j in range(0,i+1):
16         print("* ",end="")
17     print(" ")
```

PROBLEMS

OUTPUT

TERMINAL

DEBUG CONSOLE

Python Debug Console

Windows PowerShell  
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>  
  
PS C:\Altos\week 2\week2\_prgrm> & 'C:\Users\Dheeraj\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\Dheeraj\.vscode\extensions\ms-python.python-2023.12.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '57598' '--' 'c:\Altos\week 2\week2\_prgrm\pattern6.py'  
  
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\*  
  
PS C:\Altos\week 2\week2\_prgrm>

Ln 17, Col 15 Spaces: 4 UTF-8 CRLF Python 3.8.0 64-bit Go Live Prettier

File Edit Selection View Go Run Terminal Help

EXPLORER

WEEK2\_PRGM

avg.py demo.txt demo2.txt fact.py file\_sam.py fn\_sample.py if\_sample.py lamda\_sample.py loop\_sample.py mul\_table.py odd\_even.py palindrome.py pattern1.py pattern2.py pattern3.py pattern4.py pattern5.py pattern6.py pos\_neg.py pro\_sum.py sum\_n.py vow.py

OUTLINE

TIMELINE

avg.py

avg.py > ...  
1 n1,n2,n3=30,100,2000  
2 avg=(n1+n2+n3)/3 #average of three numbers  
3 print("average is ",avg)

PROBLEMS OUTPUT TERMINAL DEBUG CONSOLE

Python Debug Console

Windows PowerShell  
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Try the new cross-platform PowerShell <https://aka.ms/pscore6>  
  
PS C:\Altos\week 2\week2\_prgm> & 'C:\Users\Dheeraj\AppData\Local\Programs\Python\Python38\python.exe' 'c:\Users\Dheeraj\.vscode\extensions\ms-python.python-2023.12.0\pythonFiles\lib\python\debugpy\adapter\..\..\debugpy\launcher' '57665' '--' 'c:\Altos\week 2\week2\_prgm\avg.py'  
average is 710.0  
PS C:\Altos\week 2\week2\_prgm>

Ln 2, Col 44 Spaces: 4 UTF-8 CRLF Python 3.8.0 64-bit @ Go Live Prettier