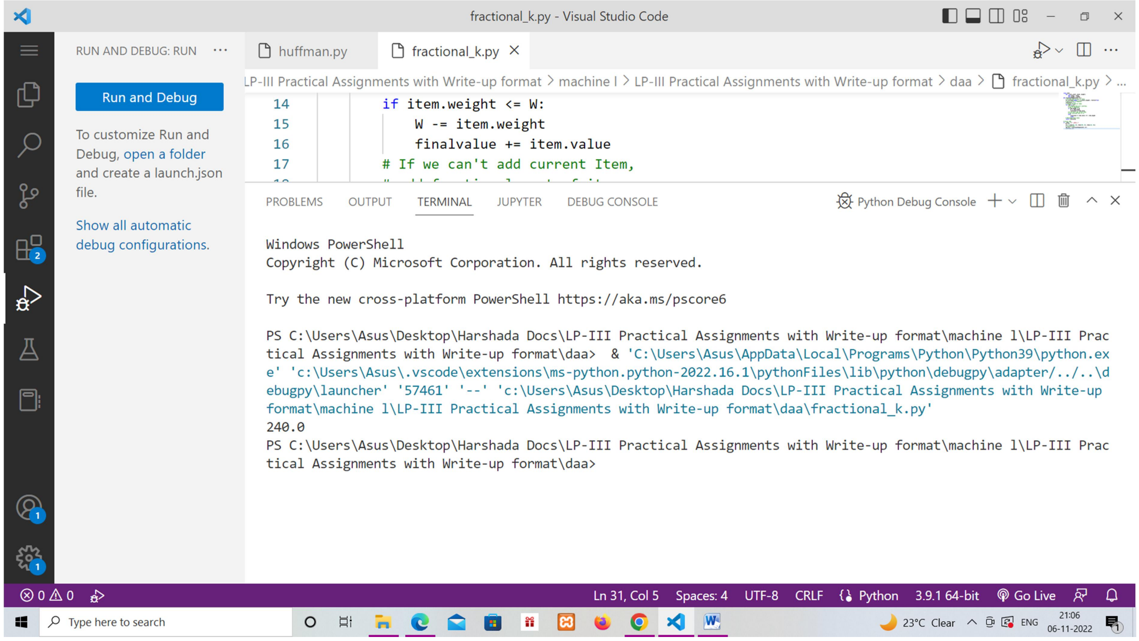
```python
class Item:
    def __init__(self, value, weight):
        self.value = value
        self.weight = weight
def fractionalKnapsack(W, arr):
    # Sorting Item on basis of ratio
    arr.sort(key=lambda x: (x.value/x.weight), reverse=True)
    # Result(value in Knapsack)
    finalvalue = 0.0
    # Looping through all Items
    for item in arr:
        # If adding Item won't overflow,
        # add it completely
        if item.weight <= W:
            W -= item.weight
            finalvalue += item.value
        # If we can't add current Item,
        # add fractional part of it
        else:
            finalvalue += item.value * W / item.weight
            break
    # Returning final value
    return finalvalue

# Driver Code
if __name__ == "__main__":
    W = 50
    arr = [Item(60, 10), Item(100, 20), Item(120, 30)]
    # Function call
    max_val = fractionalKnapsack(W, arr)
    print(max_val)
```

OUTPUT:


fractional_k.py - Visual Studio Code
RUN AND DEBUG: RUN
Run and Debug
To customize Run and Debug, open a folder and create a launch.json file.
Show all automatic debug configurations.
huffman.py
fractional_k.py
LP-III Practical Assignments with Write-up format > machine l > LP-III Practical Assignments with Write-up format > daa > fractional_k.py > ...
PROBLEMS
OUTPUT
TERMINAL
JUPYTER
DEBUG CONSOLE
Python Debug Console
⊗ 0 ⚠ 0
Ln 31, Col 5
Spaces: 4
UTF-8
CRLF
{} Python
3.9.1 64-bit
Go Live
Type here to search
23°C Clear
ENG
21:06
06-11-2022

```
        if item.weight <= W:
            W -= item.weight
            finalvalue += item.value
        # If we can't add current Item,
```

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

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

PS C:\Users\Asus\Desktop\Harshada Docs\LP-III Practical Assignments with Write-up format\machine l\LP-III Prac
tical Assignments with Write-up format\daa>  & 'C:\Users\Asus\AppData\Local\Programs\Python\Python39\python.ex
e' 'c:\Users\Asus\.vscode\extensions\ms-python.python-2022.16.1\pythonFiles\lib\python\debugpy\adapter/../..\d
ebugpy\launcher' '57461' '--' 'c:\Users\Asus\Desktop\Harshada Docs\LP-III Practical Assignments with Write-up
format\machine l\LP-III Practical Assignments with Write-up format\daa\fractional_k.py'
240.0
PS C:\Users\Asus\Desktop\Harshada Docs\LP-III Practical Assignments with Write-up format\machine l\LP-III Prac
tical Assignments with Write-up format\daa>
```