

```
File Edit Selection View Go Run Terminal Help
assignment.py - Visual Studio Code

D:\Plaksha > Term 1 > Maths and Python > assignment.py > ...
1 def ques1():
2     """
3     This function takes an input N prints the following:
4     N = 1 (1 star with one row)
5     N = 2 (2 rows: Row 1 - 1 star, Row 2 - 2 stars)
6     and so on
7     """
8     n = int(input("Enter N:"))
9     for i in range(n):
10        print(" "*i)          # Print stars
11
12 def ques2():
13     """
14     This function takes an input N prints the following:
15     N = 1 (1 star with one row)
16     N = 2 (2 rows: Row 1 - 1 star(from the right), Row 2 - 2 stars(from the right))
17     and so on
18     """
19     n = int(input("Enter N:"))
20     for i in range(n):
21        print(" "*(n-i-1), "*"*(i+1))  # Print spaces and stars
22
23 def ques3():
24     """
25     This function takes an input N prints the following:
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File Edit Selection View Go Run Terminal Help
assignment.py - Visual Studio Code

D:\Plaksha > Term 1 > Maths and Python > assignment.py > ...
21 | print(" "*(n-1), ""*(i+1)) # Print spaces and stars
22 |
23 | def ques3():
24 |     """
25 |     This function takes an input N prints the following:
26 |     N = 4
27 |     *
28 |     * *
29 |     * * *
30 |     * * * *
31 |     """
32 |     n = int(input("Enter N:"))
33 |     for i in range(n+1):
34 |         print(" "*(n-i),end="") # Print spaces
35 |         for j in range(i*2-1):
36 |             print("*", end=" ") # Print stars
37 |         print() # Print newline
38 |
39 | def ques4():
40 |     """
41 |     This function takes an inputs i and j prints a list containing the numbers between i and j(inclusive).
42 |     """
43 |     i = int(input("Enter i:"))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

PS C:\Users\kishl> & C:\Users\kishl\AppData\Local\Microsoft\WindowsApps\python3.10.exe "d:\Plaksha\Term 1\Maths and Python\assignment.py"
Enter N:6
*
* *
* * *
* * * *
* * * * *
* * * * *
PS C:\Users\kishl>
```

```
File Edit Selection View Go Run Terminal Help
assignment.py - Visual Studio Code

D:\Plaksha > Term 1 > Maths and Python > assignment.py > ...
33 | for i in range(n+1):
34 |     print(" "*(n-i),end="") # Print spaces
35 |     for j in range(i*2-1):
36 |         print("*", end=" ") # Print stars
37 |     print() # Print newline
38 |
39 | def ques4():
40 |     """
41 |     This function takes an inputs i and j prints a list containing the numbers between i and j(inclusive).
42 |     """
43 |     i = int(input("Enter i:"))
44 |     j = int(input("Enter j:"))
45 |     if i > j:
46 |         print("Error!! i must be less than j")
47 |         return
48 |     l = [x for x in range(i,j+1)] # generate a list b/w i and j using list comprehension
49 |     print(l)
50 |
51 | def ques5():
52 |     """
53 |     This function takes an inputs i an j and prints all prime nos between i and j in a list.
54 |     """
55 |     i = int(input("Enter i:"))
56 |     j = int(input("Enter j:"))

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Enter i:10
Enter j:20
[10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20]
PS C:\Users\kishl> & C:\Users\kishl\AppData\Local\Microsoft\WindowsApps\python3.10.exe "d:\Plaksha\Term 1\Maths and Python\assignment.py"
Enter i:1
Enter j:15
[1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15]
PS C:\Users\kishl> & C:\Users\kishl\AppData\Local\Microsoft\WindowsApps\python3.10.exe "d:\Plaksha\Term 1\Maths and Python\assignment.py"
Enter i:45
Enter j:116
[45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116]
PS C:\Users\kishl>
```

```
File Edit Selection View Go Run Terminal Help
assignment.py - Visual Studio Code

D:\Plaksha> Term 1> Maths and Python> assignment.py> ques5
49     i = [x for x in range(i,j+1) if x%2==0] # generate a list of even numbers using list comprehension
50     print(i)
51
52 def ques5():
53     """
54     This function takes an inputs i an j and prints all prime nos between i and j in a list.
55     """
56     i = int(input("Enter i:"))
57     j = int(input("Enter j:"))
58     # Numbers must be positive and i must be greater than j
59     if i > j:
60         print("Error!! i must be less than j")
61         return
62     elif i < 0:
63         print("Error!! Numbers must be greater than 0")
64         return
65
66     if i < 2:
67         i = 2
68
69     prime = lambda x:sum([1 if x%z==0 else 0 for z in range(2,int(x))]) # Lambda function which returns 0 if prime and 1+ if not prime
70     l = [x for x in range(i,j+1) if prime(x)==0]
71     print("Prime Nos:", l)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

PS C:\Users\kishi> & C:/Users/kishi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "d:/Plaksha/Term 1/Maths and Python/assignment.py"
Enter i:11
Enter j:50
Prime Nos: [2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47]
PS C:\Users\kishi> & C:/Users/kishi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "d:/Plaksha/Term 1/Maths and Python/assignment.py"
Enter i:20
Enter j:70
Prime Nos: [23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67]
PS C:\Users\kishi> & C:/Users/kishi/AppData/Local/Microsoft/WindowsApps/python3.10.exe "d:/Plaksha/Term 1/Maths and Python/assignment.py"
Enter i:90
Enter j:130
Prime Nos: [97, 101, 103, 107, 109, 113, 127]
PS C:\Users\kishi>
```

## Script

```
def ques1():
    """
    This function takes an input N prints the following:
    N = 1 (1 star with one row)
    N = 2 (2 rows: Row 1 - 1 star, Row 2 - 2 stars)
    and so on
    """
    n = int(input("Enter N:"))
    for i in range(n):
        print(" "*i*(i+1))          # Print stars

def ques2():
    """
    This function takes an input N prints the following:
    N = 1 (1 star with one row)
    N = 2 (2 rows: Row 1 - 1 star(from the right), Row 2 - 2 stars(from the
right))
    and so on
    """
    n = int(input("Enter N:"))
    for i in range(n):
        print(" "*(n-i-1), "*"*(i+1))    # Print spaces and stars

def ques3():
```

```

"""
This function takes an input N prints the following:
N = 4
    *
  * * *
 * * * * *
* * * * * * *
"""

n = int(input("Enter N:"))
for i in range(n+1):
    print(" "*(2*(n-i)),end="")      # Print spaces
    for j in range(i*2-1):
        print('*', end=" ")        # Print stars
    print()                          # Print newline

def ques4():
    """
    This function takes an inputs i and j prints a list containing the numbers
    between i and j(inclusive).
    """
    i = int(input("Enter i:"))
    j = int(input("Enter j:"))
    if i > j:
        print("Error!! i must be less than j")
        return
    l = [x for x in range(i,j+1)] # generate a list b/w i and j using list
    comprehension
    print(l)

def ques5():
    """
    This function takes an inputs i an j and prints all prime nos between i
    and j in a list.
    """
    i = int(input("Enter i:"))
    j = int(input("Enter j:"))
    # Numbers must be positive and i must be greater than j
    if i > j:
        print("Error!! i must be less than j")
        return
    elif i < 0:
        print("Error!! Numbers must be greater than 0")
        return

    if i < 2:
        i=2

```

```
prime = lambda x:sum([1 if x%z==0 else 0 for z in range(2,int(x))]) #
Lambda function which returns 0 if prime and 1+ if not prime
l = [x for x in range(i,j+1) if prime(x)==0]
print("Prime Nos:", l)

#ques1()
#ques2()
#ques3()
#ques4()
ques5()
```