

practice.py > ...

```
1  # Q1
2  def reverse(s):
3      str = ""
4      for i in s:
5          str = i + str
6      return str
7
8  s = "Geeksforgeeks"
9
10 print ("The original string is : ",end="")
11 print (s)
12
13 print ("The reversed string(using loops) is : ",end="")
14 print (reverse(s))
15
16
17
18
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Windows PowerShell

Copyright (C) Microsoft Corporation. All rights reserved.

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

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vs
code\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '50987' '--' 'c:\Users\admin\python assignmen
ts\practice.py'
```

The original string is : Geeksforgeeks


The reversed string(using loops) is : skeegrofskeeG

```
PS C:\Users\admin\python assignments>
```

+ v ^ x

 powershell

 Python Deb...

 Python Deb...

practice.py > ...

```
1  # Q2
2  lower=int(input("Enter lower range limit:"))
3  upper=int(input("Enter upper range limit:"))
4  n=int(input("Enter the number to be divided by:"))
5  for i in range(lower,upper):
6      if(i%n==0):
7          print(i)
8
9
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python Debug Console + ▾ □ 🗑 ^ ✕

Windows PowerShell

Copyright (C) Microsoft Corporation. All rights reserved.

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

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms
-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '51002' '--' 'c:\Users\admin\python assignments\practice.py'
```

Enter lower range limit:5

Enter upper range limit:50

Enter the number to be divided by:48

48

PS C:\Users\admin\python assignments> █

practice.py > ...

```
1  # Q3
2  a = float(input('Enter first side: '))
3  b = float(input('Enter second side: '))
4  c = float(input('Enter third side: '))
5
6  # calculate the semi-perimeter
7  s = (a + b + c) / 2
8
9  # calculate the area
10 area = (s*(s-a)*(s-b)*(s-c)) ** 0.5
11 print('The area of the triangle is %0.2f' %area)
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python Debug Console + ▾ □ ✕ ^ ×

Windows PowerShell

Copyright (C) Microsoft Corporation. All rights reserved.

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

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms
-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '51016' '--' 'c:\Users\admin\python assignments\practice.py'
```

Enter first side: 6

Enter second side: 7

Enter third side: 9

The area of the triangle is 20.98

```
PS C:\Users\admin\python assignments> █
```

practice.py > ...

```
1  # Q4
2  a='*'
3  for i in range(1,6):
4      print(i*a)
5  for i in range(4,0,-1):
6      print(i*a)
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python Debug Console + ▾ □ 🗑 ⤴ ✕

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '51027' '--' 'c:\Users\admin\python assignments\practice.py'
```

```
*
**
***
****
*****
****
***
**
*
```

```
PS C:\Users\admin\python assignments>
```

```
practice.py > ...
1  # Q5
2  n = int(input("Enter number of rows:"))
3  a=0
4
5  for i in range (n):
6      for j in range(i+1):
7          print(chr(65+a), end="")
8          a+=1
9      print()
10
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python Debug Console + ▾ □ 🗑 ⤴ ✕

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

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '51039' '--' 'c:\Users\admin\python assignments\practice.py'
```

Enter number of rows:5

A

BC

DEF

GHIJ

KLMNO

```
PS C:\Users\admin\python assignments> |
```


practice.py > ...

```
1  # Q6
2  n=int(input("Enter the number till you want to check: "))
3  primes = []
4  for i in range (2, n+1):
5      for j in range(2, i):
6          if i%j == 0:
7              break
8          else:
9              primes.append(i)
10 print(primes)
11
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python Debug Console + ▾ □ 🗑 ⤴ ✕

Windows PowerShell

Copyright (C) Microsoft Corporation. All rights reserved.

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

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '51049' '--' 'c:\Users\admin\python assignments\practice.py'
```

```
Enter the number till you want to check: 250
```

```
[2, 3, 5, 7, 11, 13, 17, 19, 23, 29, 31, 37, 41, 43, 47, 53, 59, 61, 67, 71, 73, 79, 83, 89, 97, 101, 103, 107, 109, 113, 127, 131, 137, 139, 149, 151, 157, 163, 167, 173, 179, 181, 191, 193, 197, 199, 211, 223, 227, 229, 233, 239, 241]
```

```
PS C:\Users\admin\python assignments> █
```

practice.py > ...

```
1  # Q7
2  nl=[]
3  for x in range(1,500):
4      if (x%7==0) and (x%11==0):
5          nl.append(str(x))
6  print(','.join(nl))
7  |
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python Debug Console + ▾ □ 🗑 ^ ✕

Windows PowerShell

Copyright (C) Microsoft Corporation. All rights reserved.

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

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '51062' '--' 'c:\Users\admin\python assignments\practice.py'
77,154,231,308,385,462
PS C:\Users\admin\python assignments>
```

practice.py > ...

```
1  #Q8
2  # a,b part
3  num = float(input("Enter a number: "))
4  if num > 0:
5      print("Positive number")
6  elif num == 0:
7      print("Zero")
8  else:
9      print("Negative number")
10
11 # c,d part
12 num = int(input("Enter a number: "))
13 if (num % 2) == 0:
14     print("{0} is Even".format(num))
15 else:
16     print("{0} is Odd".format(num))
17
18 # e part
19 arr=[1,4,5,4,3,3,4,5,6,7]
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python Debug Console + - □ □ ^ X

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

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '51071' '--' 'c:\Users\admin\python assignments\practice.py'
```

```
Enter a number: 57
```

```
Positive number
```

```
Enter a number: 43
```

```
43 is Odd
```

```
1: 1
```

```
4: 3
```

```
5 2
```

```
PS C:\Users\admin\python assignments> |
```


practice.py > ...

```
1  # Q9
2  words = ['hello', 'goodbye', 'howdy', 'hello', 'hello', 'hi', 'bye']
3
4  print(f'"hello" appears {words.count("hello")} time(s)')
5  print(f'"howdy" appears {words.count("howdy")} time(s)')
6
7
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

Python Debug Console + ▾ □ 🗑 ⤴ ✕

Windows PowerShell

Copyright (C) Microsoft Corporation. All rights reserved.

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

```
PS C:\Users\admin\python assignments> & 'C:\Users\admin\AppData\Local\Microsoft\WindowsApps\python3.10.exe' 'c:\Users\admin\.vscode\extensions\ms
-python.python-2022.8.0\pythonFiles\lib\python\debugpy\launcher' '51083' '--' 'c:\Users\admin\python assignments\practice.py'
```

```
"hello" appears 3 time(s)
```

```
"howdy" appears 1 time(s)
```

```
PS C:\Users\admin\python assignments>
```