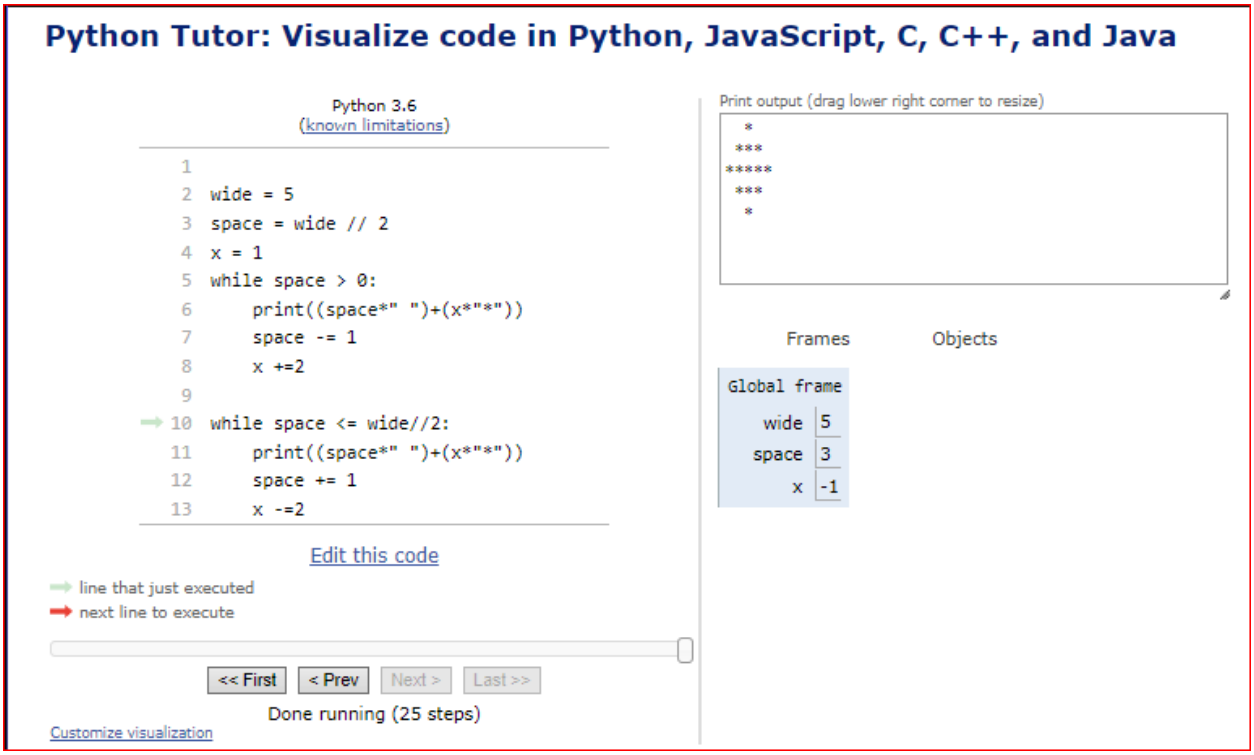
Ex:1

```
wide = 5
space = wide // 2
x = 1
while space > 0:
    print((space*" ")+(x*"*"))
    space -= 1
    x +=2

while space <= wide//2:
    print((space*" ")+(x*"*"))
    space += 1
    x -=2
```



Ex:2

```
while(1):
    try:
        wide = int(input("Please Enter a Odd:\n"))
        break
    except:
        wide = input("Error Please Enter a Odd:\n")

while(1):
    try:
        star = int(input("Please Enter Number Of Star:\n"))
        break
    except:
        star = input("Error Please Enter Number Of Star:\n")



for x in range(star+1):

    space = wide // 2
    x = 1
    while space > 0:
        print((space*" ")+(x*"*"))
        space -= 1
        x +=2

    while space <= wide//2:
        print((space*" ")+(x*"*"))
        space += 1
        x -=2
```

Python Tutor: Visualize code in Python, JavaScript, C, C++, and Java

Python 3.6
(known limitations)

```
1  while(1):
2      try:
3          wide = int(input("Please Enter a Odd:\n"))
4          break
5      except:
6          wide = input("Error Please Enter a Odd:\n")
7
8  while(1):
9      try:
10         star = int(input("Please Enter Number Of Star
11         break
12     except:
13         star = input("Error Please Enter Number Of St
14
15
16 for x in range(star+1):
17
18     space = wide // 2
19     x = 1
20     while space > 0:
```

Edit this code

line that just executed
next line to execute

<< First | < Prev | Next > | Last >>

Done running (159 steps)

Customize visualization

Print output (drag lower right corner to resize)

```
Please Enter a Odd:
5
Please Enter Number Of Star:
5
  *
 ***
*****
 ***
  *
  *
 ***
*****
 ***
  *
  *
 ***
*****
 ***
  *
  *
 ***
*****
 ***
  *
  *
 ***
*****
 ***
  *
  *
 ***
*****
 ***
  *
```

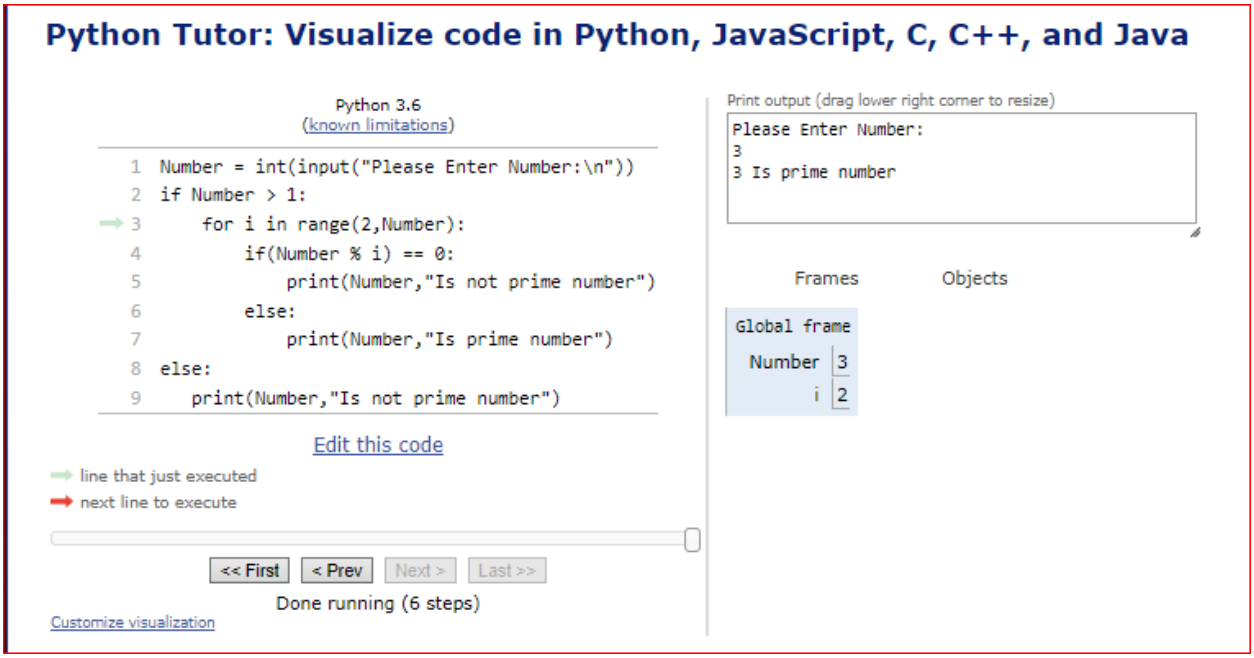
Frames Objects

Global frame

wide	5
star	5
x	-1
space	3

Ex:3

```
Number = int(input("Please Enter Number:\n"))
if Number > 1:
   for i in range(2,Number):
      if(Number % i) == 0:
         print(Number,"Is not prime number")
      else:
         print(Number,"Is prime number")
else:
  print(Number,"Is not prime number")
```

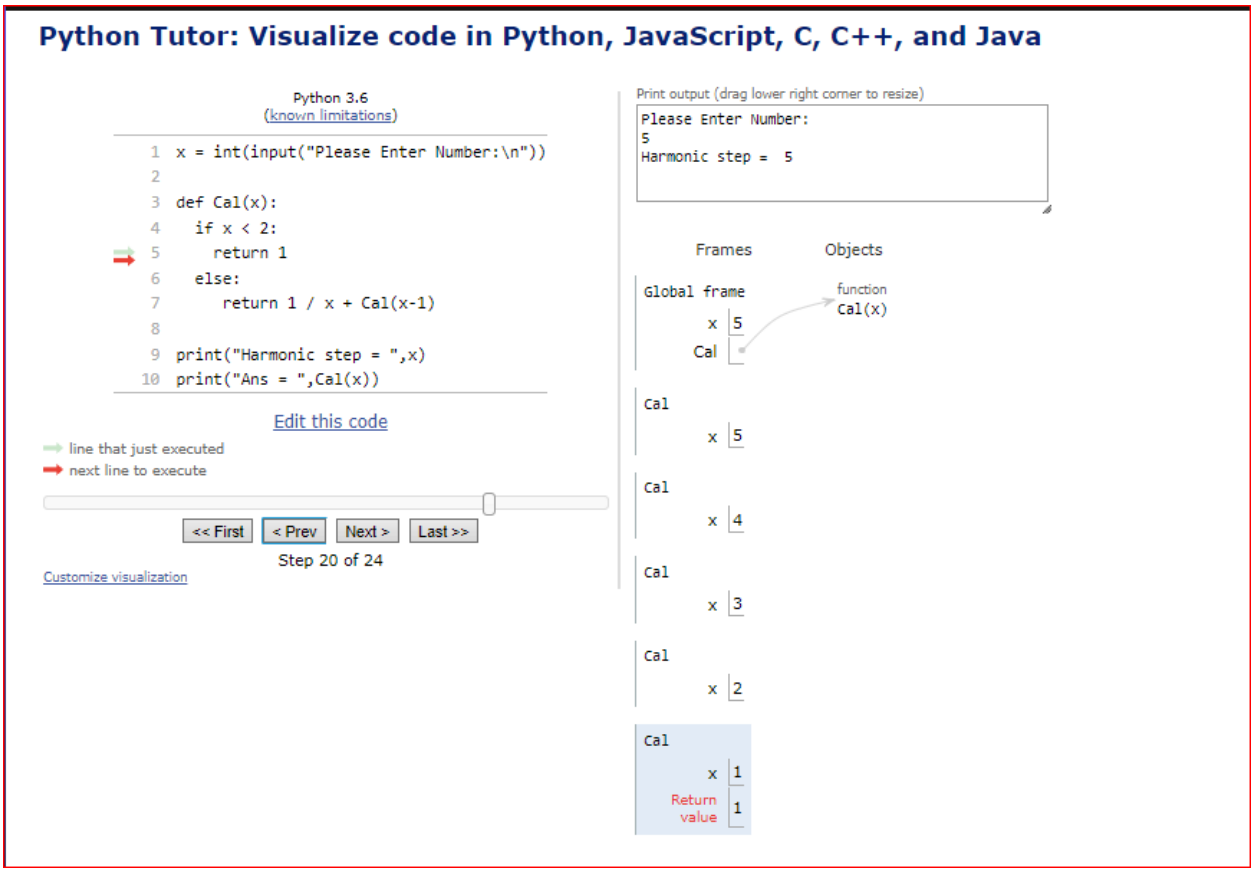


Ex:4

```
X = int(input("Please Enter Number:\n"))


def Cal(x):
 if x < 2:
   return 1
 else:
    return 1 / x + Cal(x-1)


print("Harmonic step = ",x)
print("Ans = ",Cal(x))
```



Python Tutor: Visualize code in Python, JavaScript, C, C++, and Java

Python 3.6
(known limitations)

```
1  x = int(input("Please Enter Number:\n"))
2
3  def Cal(x):
4    if x < 2:
5      return 1
6    else:
7      return 1 / x + Cal(x-1)
8
9  print("Harmonic step = ",x)
10 print("Ans = ",Cal(x))
```

Edit this code

line that just executed
next line to execute

<< First | < Prev | Next > | Last >>

Done running (24 steps)

Customize visualization

Print output (drag lower right corner to resize)

```
Please Enter Number:
5
Harmonic step =  5
Ans =  2.283333333333333
```

Frames Objects