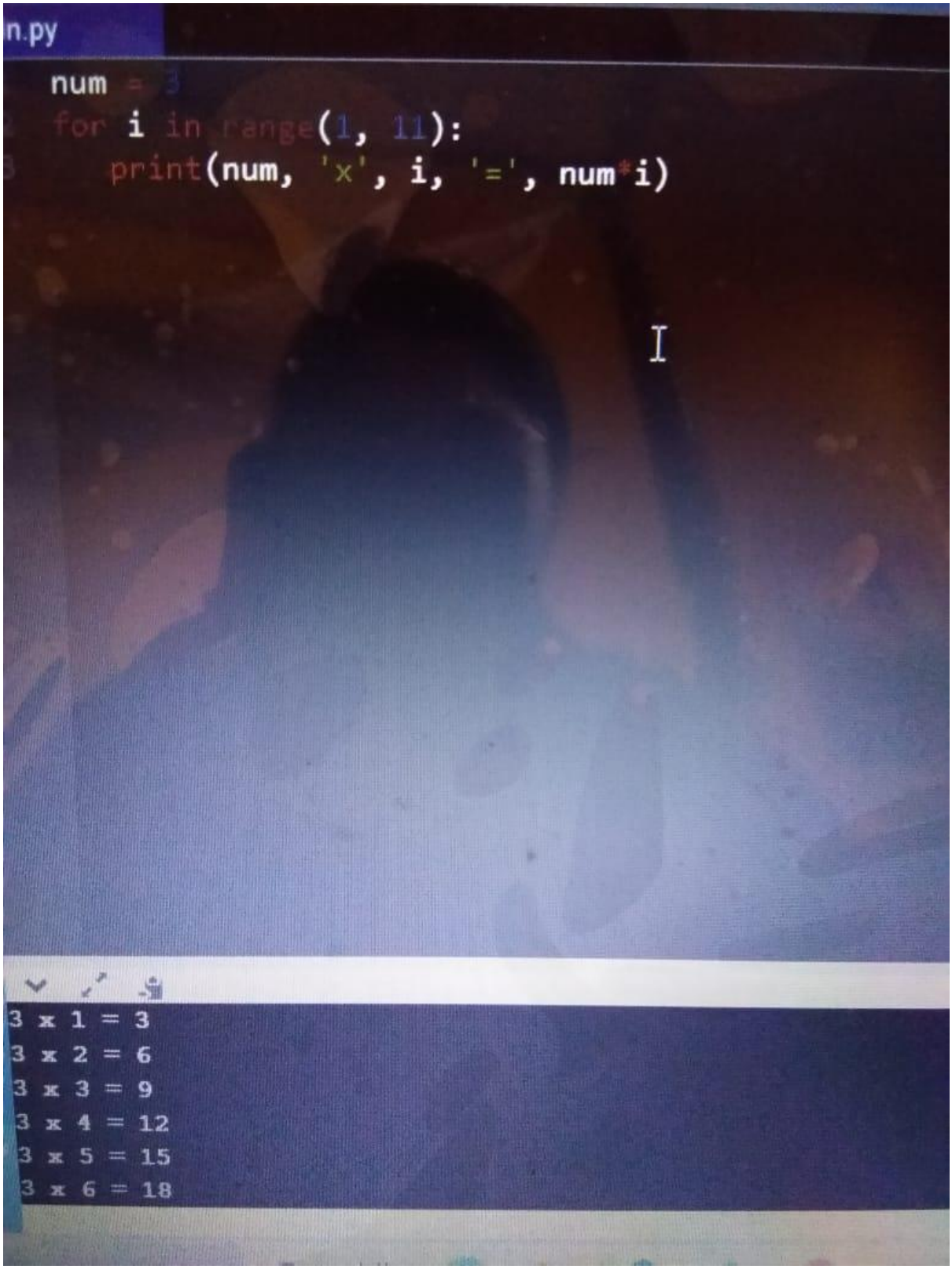
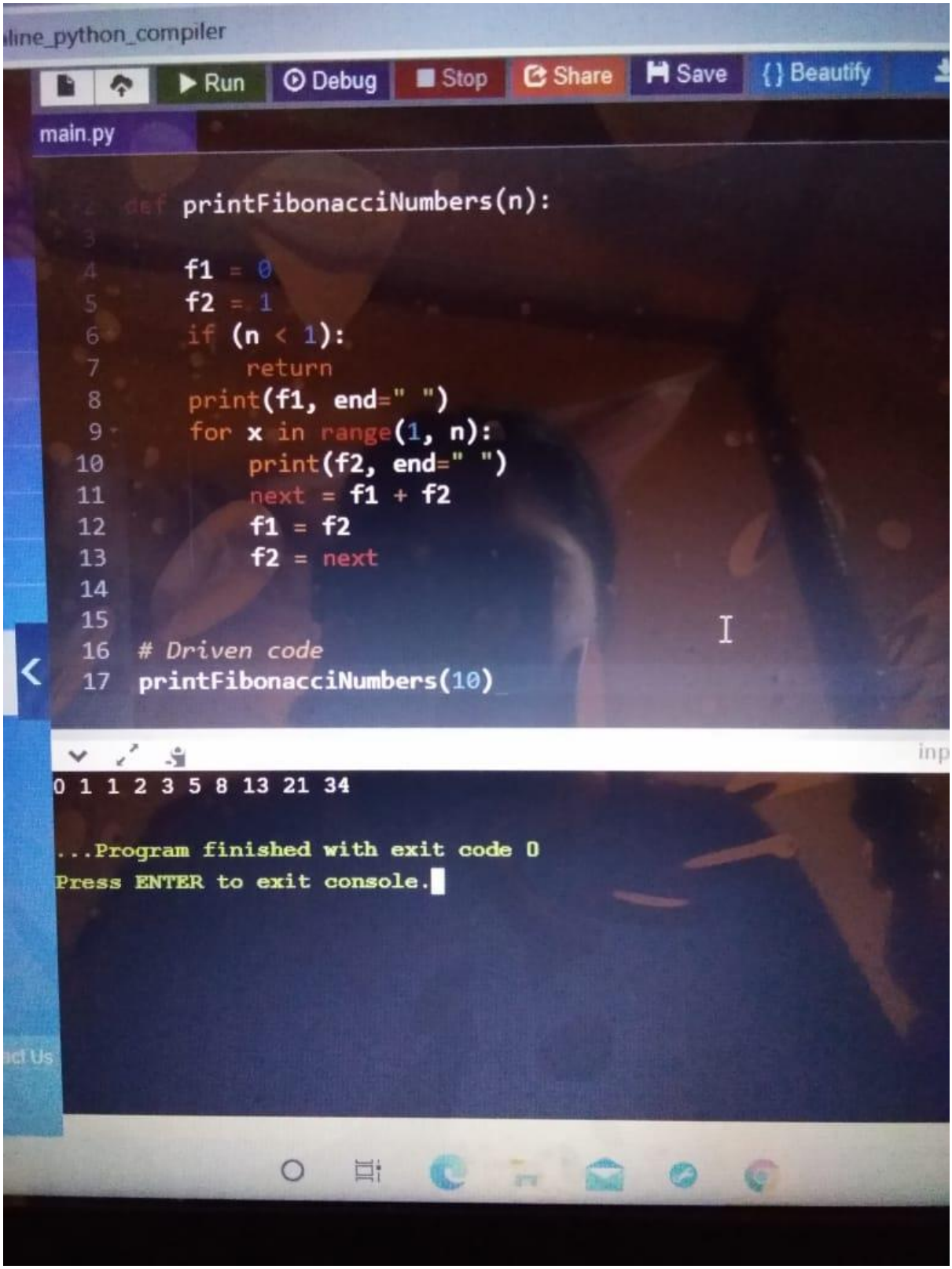
PYTHON ASSIGNMENT 3


n.py
num = 3
for i in range(1, 11):
print(num, 'x', i, '=', num*i)
3 x 1 = 3
3 x 2 = 6
3 x 3 = 9
3 x 4 = 12
3 x 5 = 15
3 x 6 = 18


line_python_compiler
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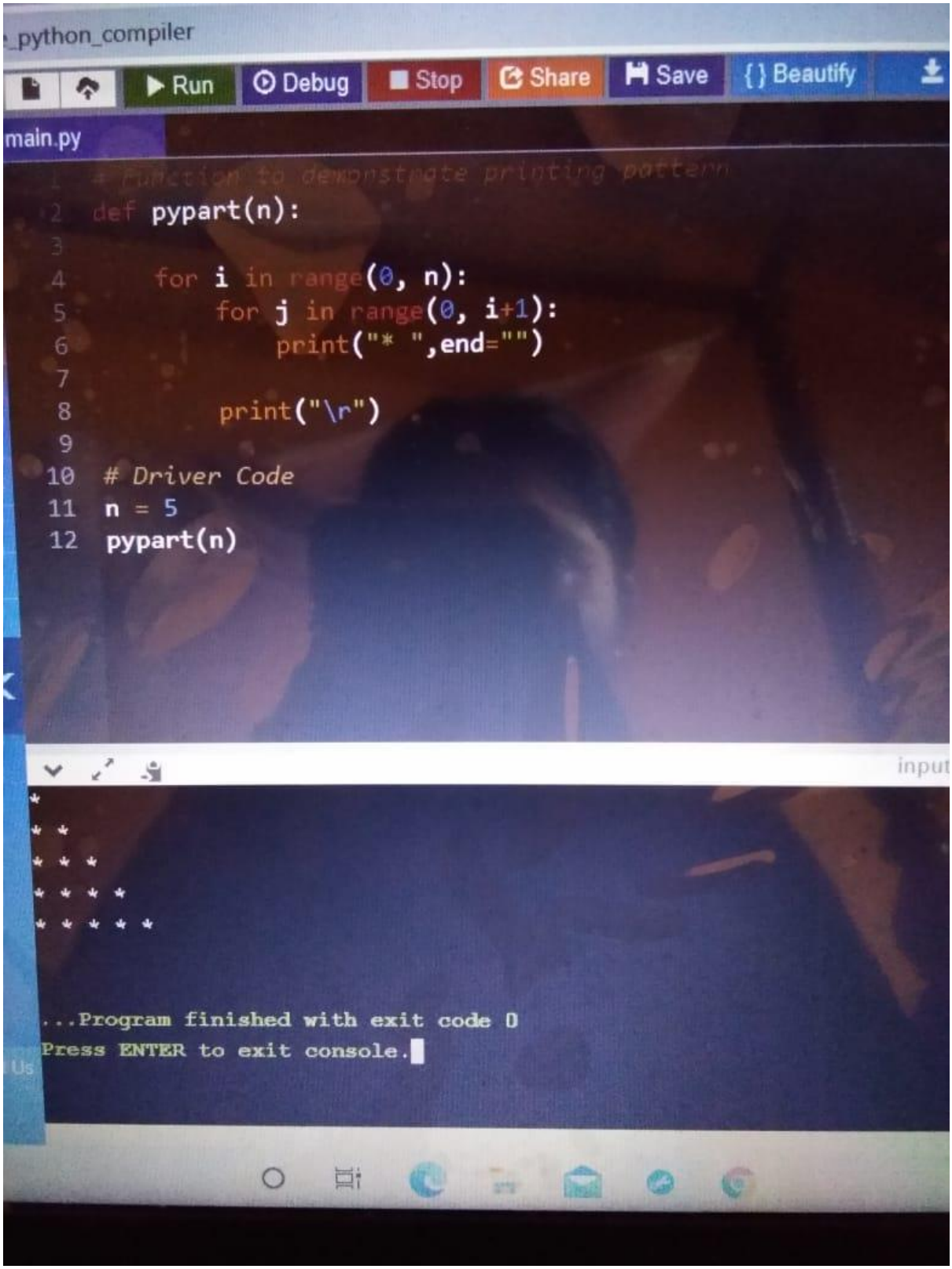
{} Beautify
main.py
def printFibonacciNumbers(n):
f1 = 0
f2 = 1
if (n < 1):
return
print(f1, end=" ")
for x in range(1, n):
print(f2, end=" ")
next = f1 + f2
f1 = f2
f2 = next
# Driven code
printFibonacciNumbers(10)
0 1 1 2 3 5 8 13 21 34
...Program finished with exit code 0
Press ENTER to exit console.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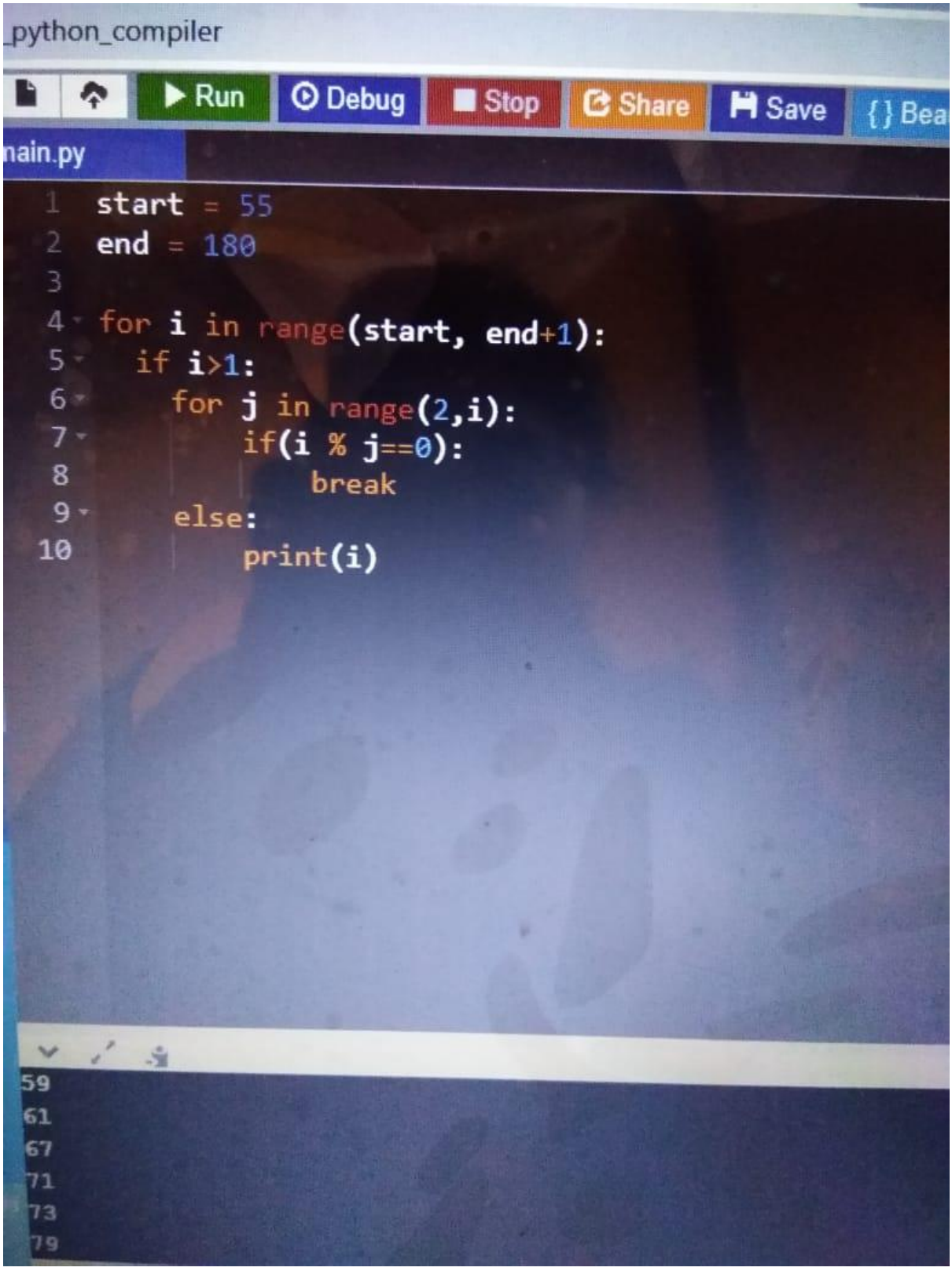
main.py
# Function to demonstrate printing pattern
def pypart(n):
for i in range(0, n):
for j in range(0, i+1):
print("* ",end="")
print("\r")
# Driver Code
n = 5
pypart(n)
input
*
* *
* * *
* * * *
* * * * *
...Program finished with exit code 0
Press ENTER to exit console.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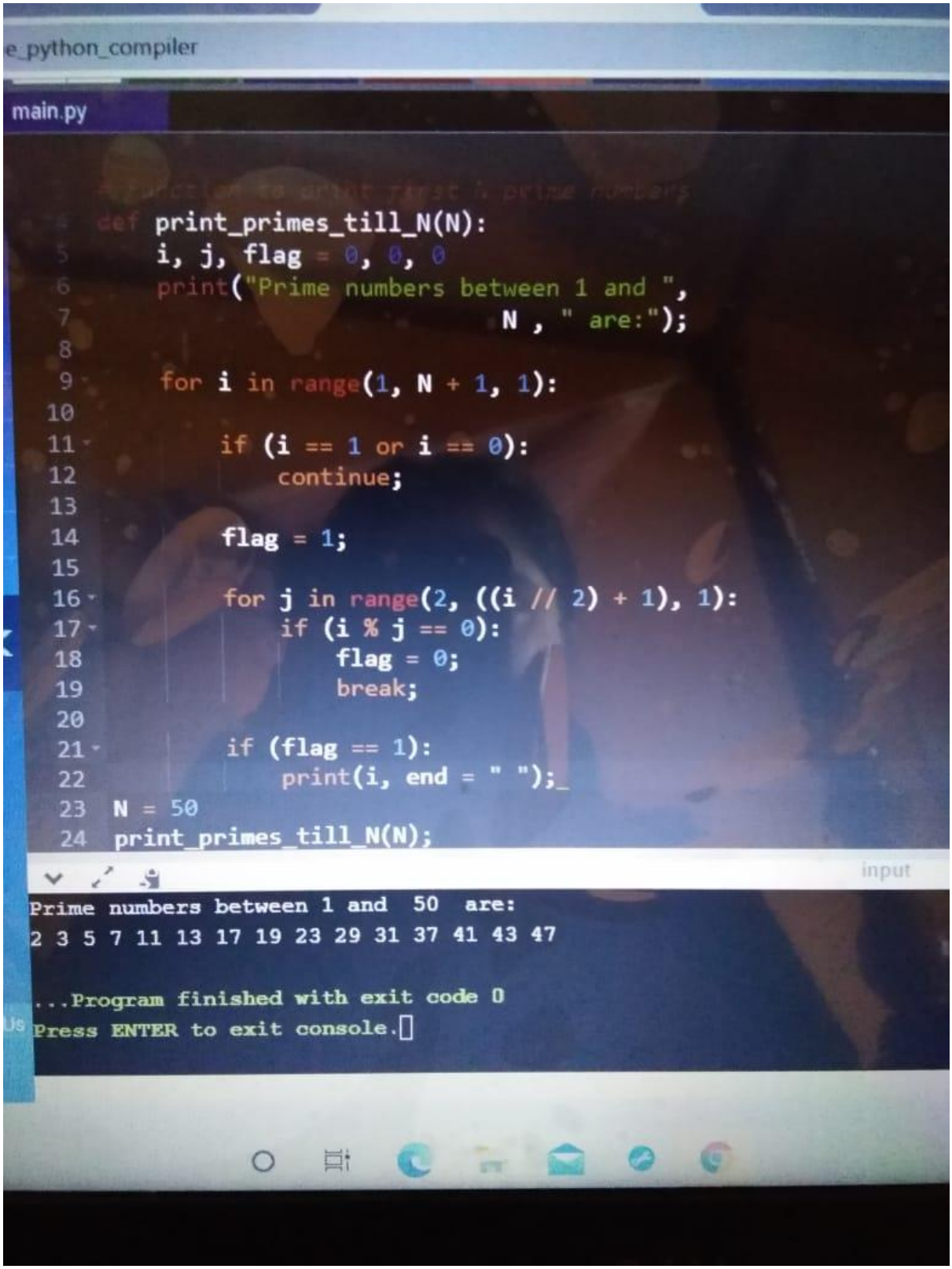
nain.py
1 start = 55
2 end = 180
3
4 for i in range(start, end+1):
5 if i>1:
6 for j in range(2,i):
7 if(i % j==0):
8 break
9 else:
10 print(i)
59
61
67
71
73
79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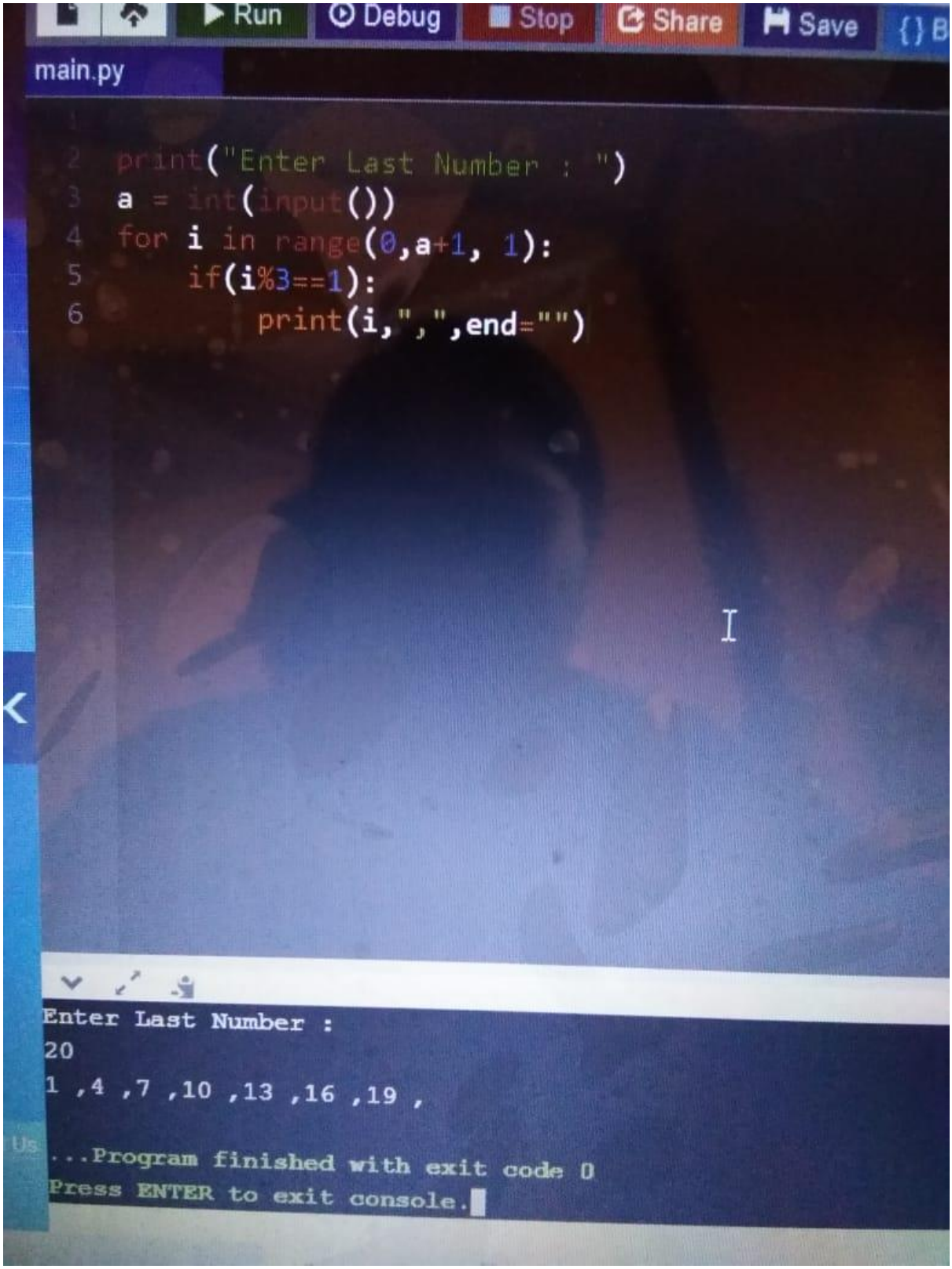
main.py
def print_primes_till_N(N):
i, j, flag = 0, 0, 0
print("Prime numbers between 1 and ",
N , " are:");
for i in range(1, N + 1, 1):
if (i == 1 or i == 0):
continue;
flag = 1;
for j in range(2, ((i // 2) + 1), 1):
if (i % j == 0):
flag = 0;
break;
if (flag == 1):
print(i, end = " ");
N = 50
print_primes_till_N(N);
input
Prime numbers between 1 and 50 are:
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47
...Program finished with exit code 0
Press ENTER to exit console.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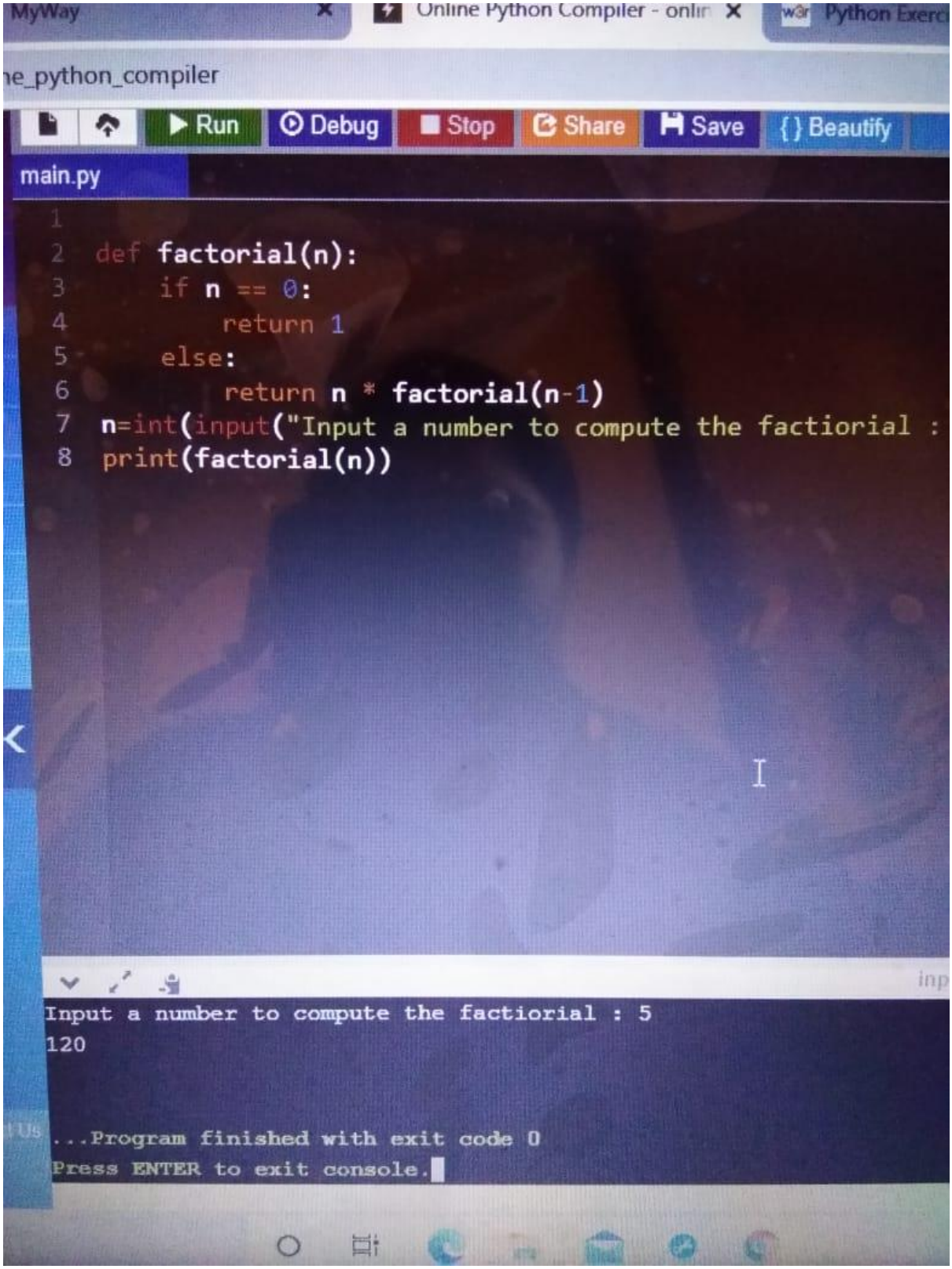
main.py
print("Enter Last Number : ")
a = int(input())
for i in range(0,a+1, 1):
if(i%3==1):
print(i,",",end="")
Enter Last Number :
20
1 ,4 ,7 ,10 ,13 ,16 ,19 ,
...Program finished with exit code 0
Press ENTER to exit console.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Python Exerc
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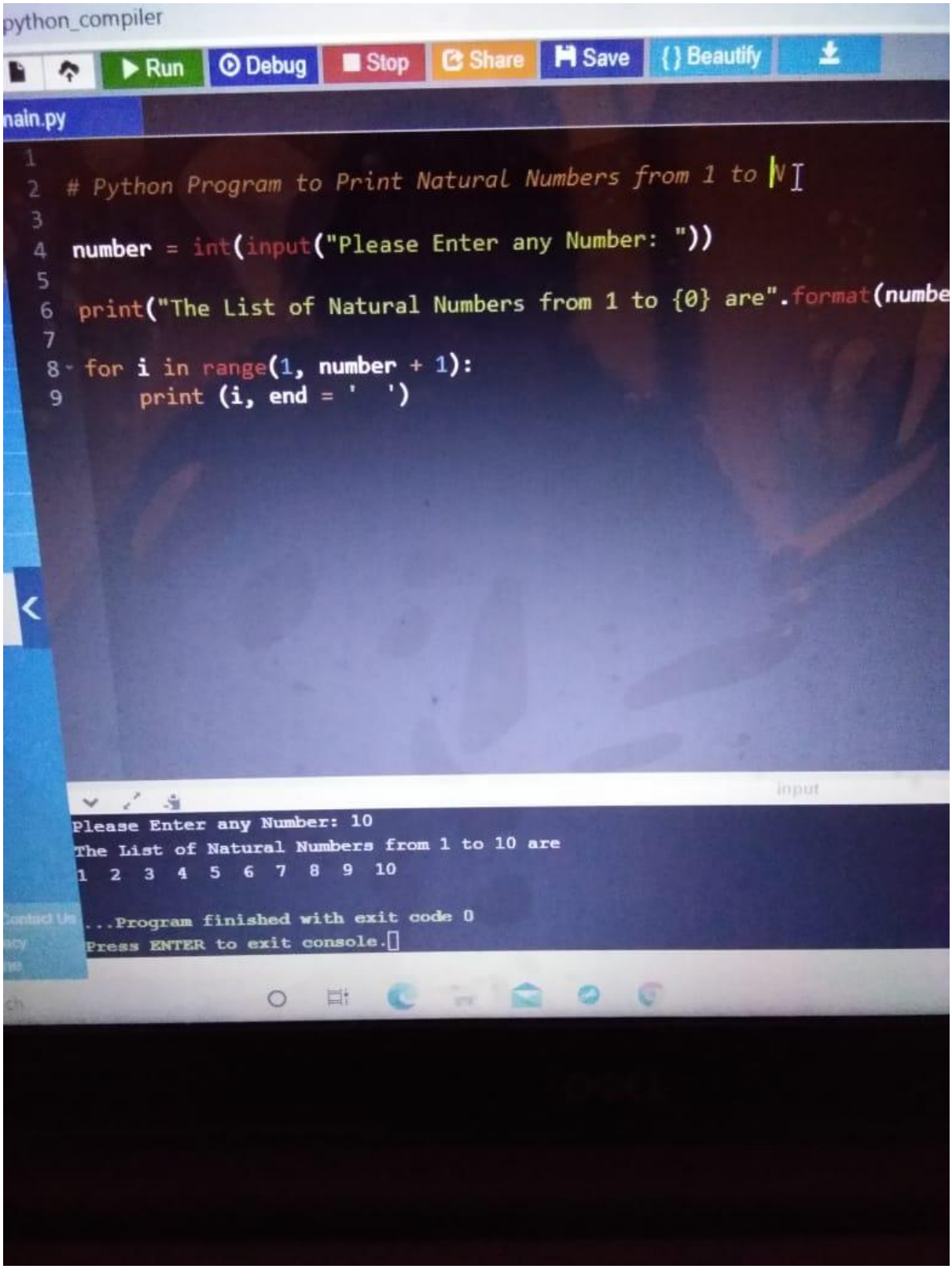
main.py
1
2 def factorial(n):
3 if n == 0:
4 return 1
5 else:
6 return n * factorial(n-1)
7 n=int(input("Input a number to compute the factiorial :
8 print(factorial(n))
Input a number to compute the factiorial : 5
120
...Program finished with exit code 0
Press ENTER to exit console.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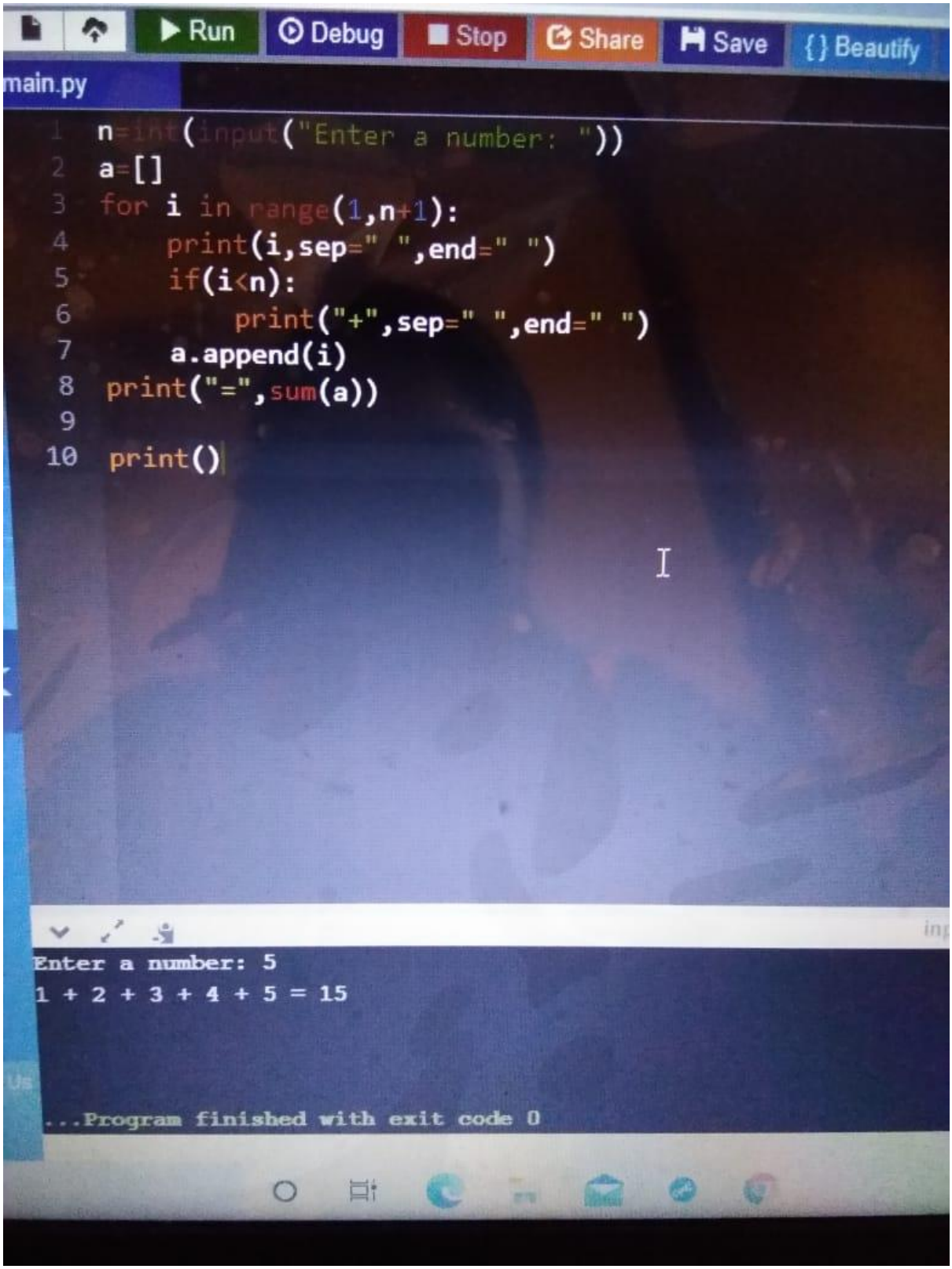
main.py
# Python Program to Print Natural Numbers from 1 to N
number = int(input("Please Enter any Number: "))
print("The List of Natural Numbers from 1 to {0} are".format(numbe
for i in range(1, number + 1):
print (i, end = ' ')
input
Please Enter any Number: 10
The List of Natural Numbers from 1 to 10 are
1 2 3 4 5 6 7 8 9 10
...Program finished with exit code 0
Press ENTER to exit console.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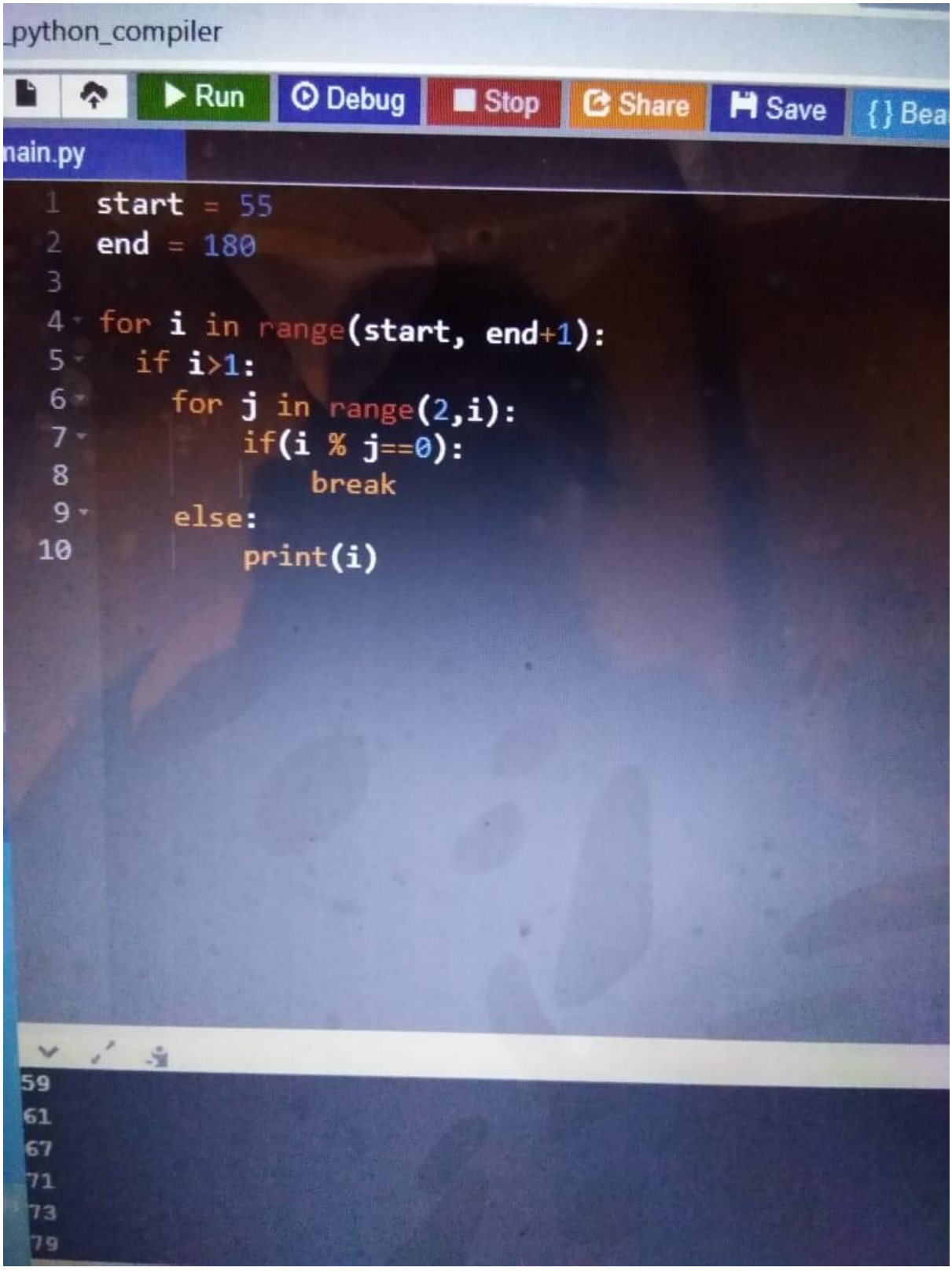
main.py
n=int(input("Enter a number: "))
a=[]
for i in range(1,n+1):
print(i,sep=" ",end=" ")
if(i<n):
print("+",sep=" ",end=" ")
a.append(i)
print("=",sum(a))
print()
Enter a number: 5
1 + 2 + 3 + 4 + 5 = 15
...Program finished with exit code 0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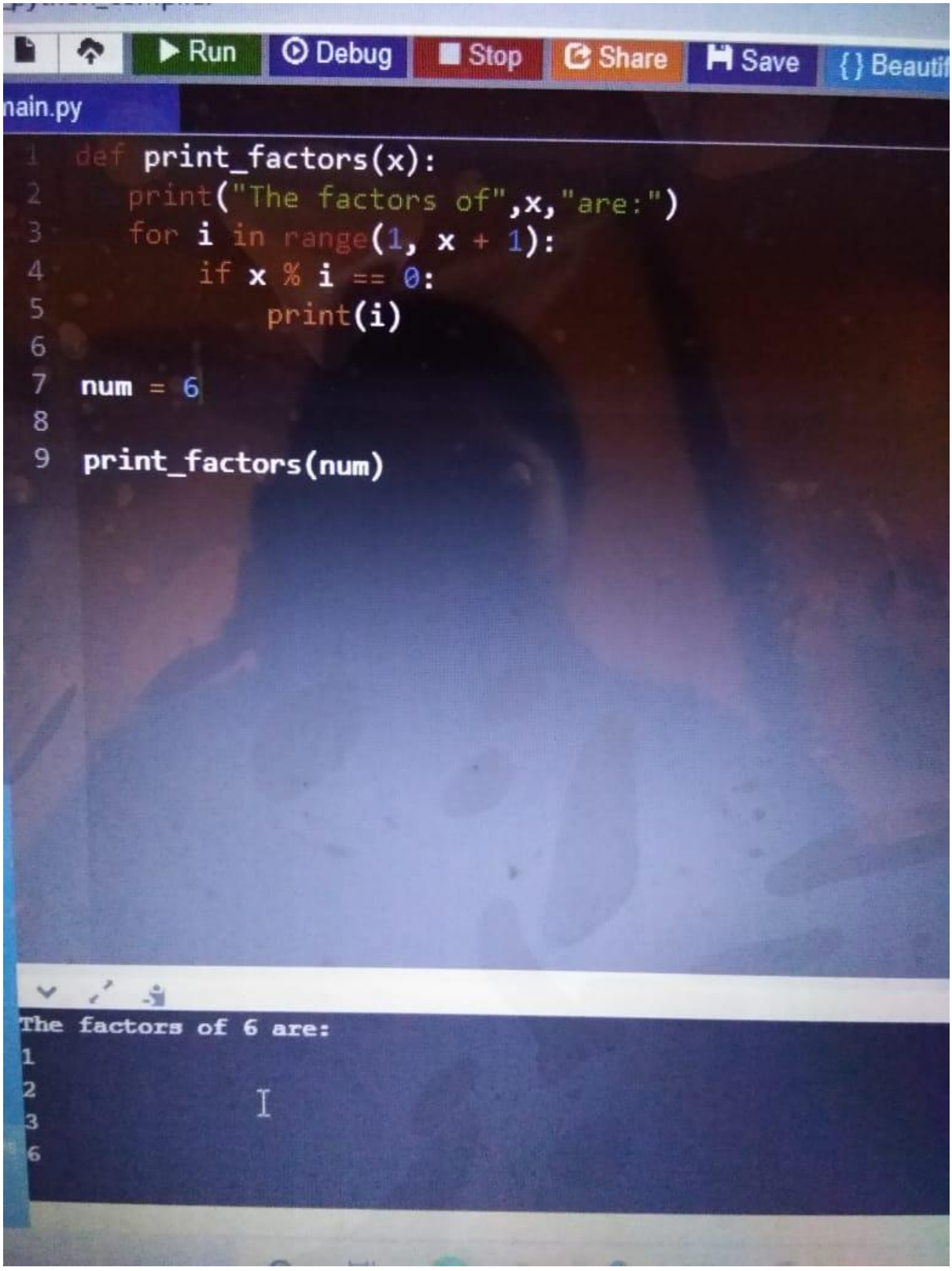
Run
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Stop
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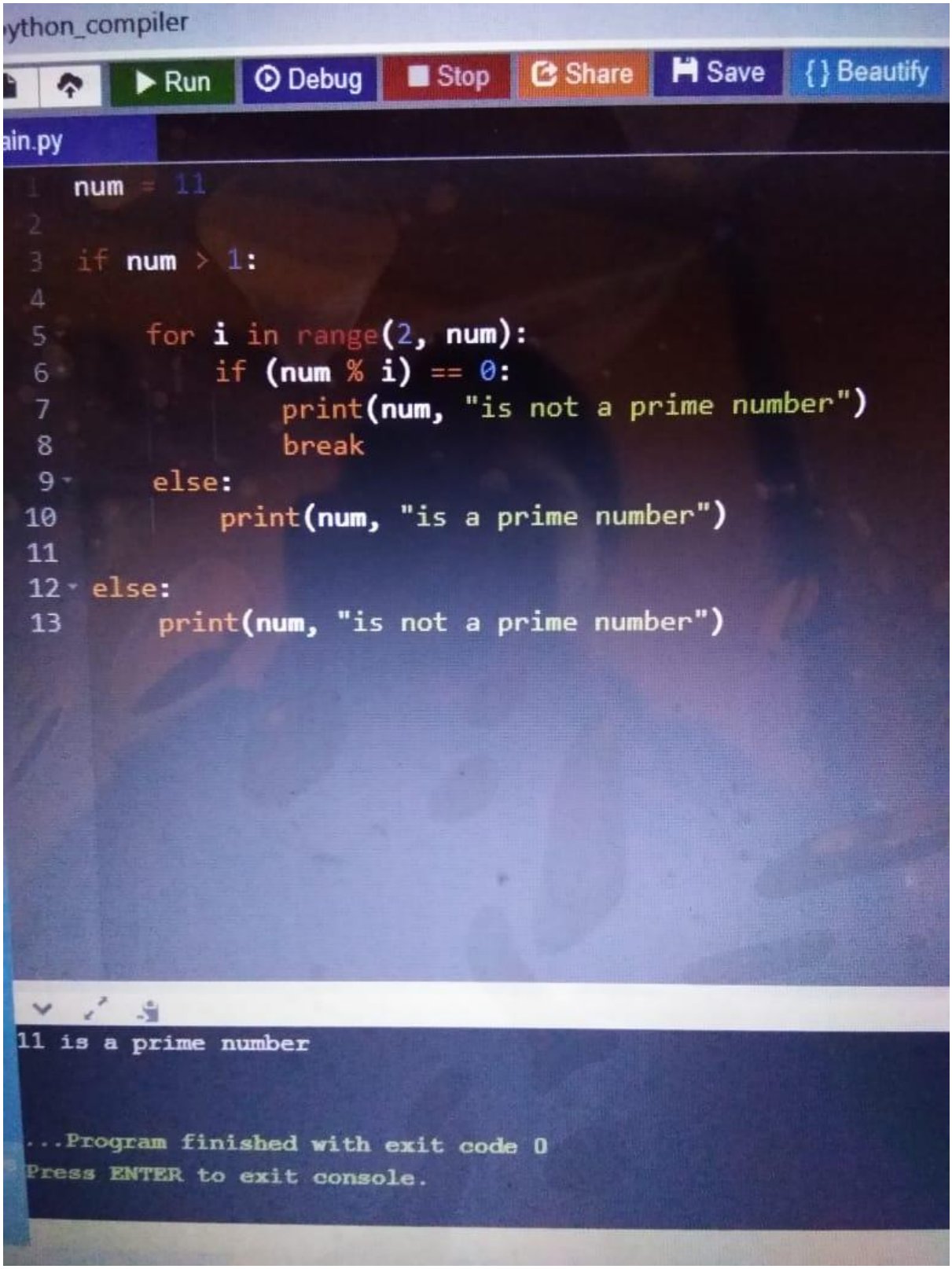
{} Beautif
main.py
1 def print_factors(x):
2 print("The factors of",x,"are:")
3 for i in range(1, x + 1):
4 if x % i == 0:
5 print(i)
6
7 num = 6
8
9 print_factors(num)
The factors of 6 are:
1
2
3
6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Run
Debug
Stop
Share
Save
{} Beautify
ain.py
num = 11
if num > 1:
for i in range(2, num):
if (num % i) == 0:
print(num, "is not a prime number")
break
else:
print(num, "is a prime number")
else:
print(num, "is not a prime number")
11 is a prime number
...Program finished with exit code 0
Press ENTER to exit console.

FEBRUARY 9, 2021