



ABASYN UNIVERSITY PESHAWAR
DEPARTMENT OF SOFTWARE
ENGINEERING

Assignment. No. 3

Subject: Intro to Computer Programming

Class /section: 1st semester (CE)

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Q. No. 1:

```
python_file.py x
1 start = int(input('Enter a start Number:...'))
2 end = int(input('Enter a Ending Number:..'))
3 if end < start:
4     print('Please! Enter the start number more than end number.')
5 elif end <= 1:
6     print('Your entered Number is not Prime')
7 elif start < 1:
8     print('Please Enter Your start Number is large than 1 ')
9 else:
10    print('Your Prime Number is:..')
11    for num in range(start, end, +1):
12        for i in range(2, num):
13            if (num % i) == 0:
14                break
15            else:
16                print(num, end=' ')
17
```

Run - python file.py

Run: python_file x

"C:\Users\S Khan\AppData\Local\Programs\Python\Python39\python.exe" python_file.py

Enter a start Number:...1

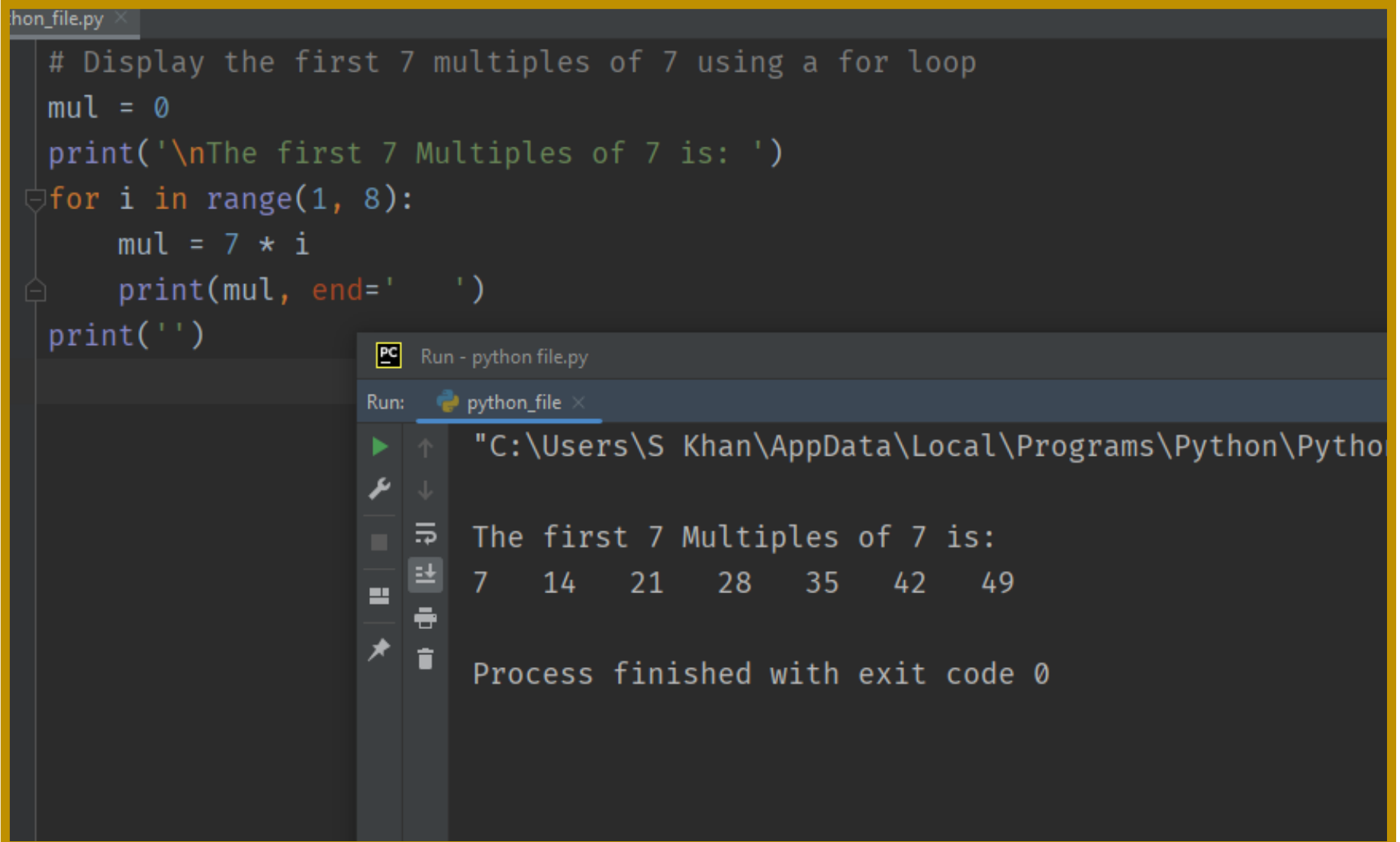
Enter a Ending Number:..15

Your Prime Number is:..

1 2 3 5 7 11 13

Process finished with exit code 0

Q. No. 2:



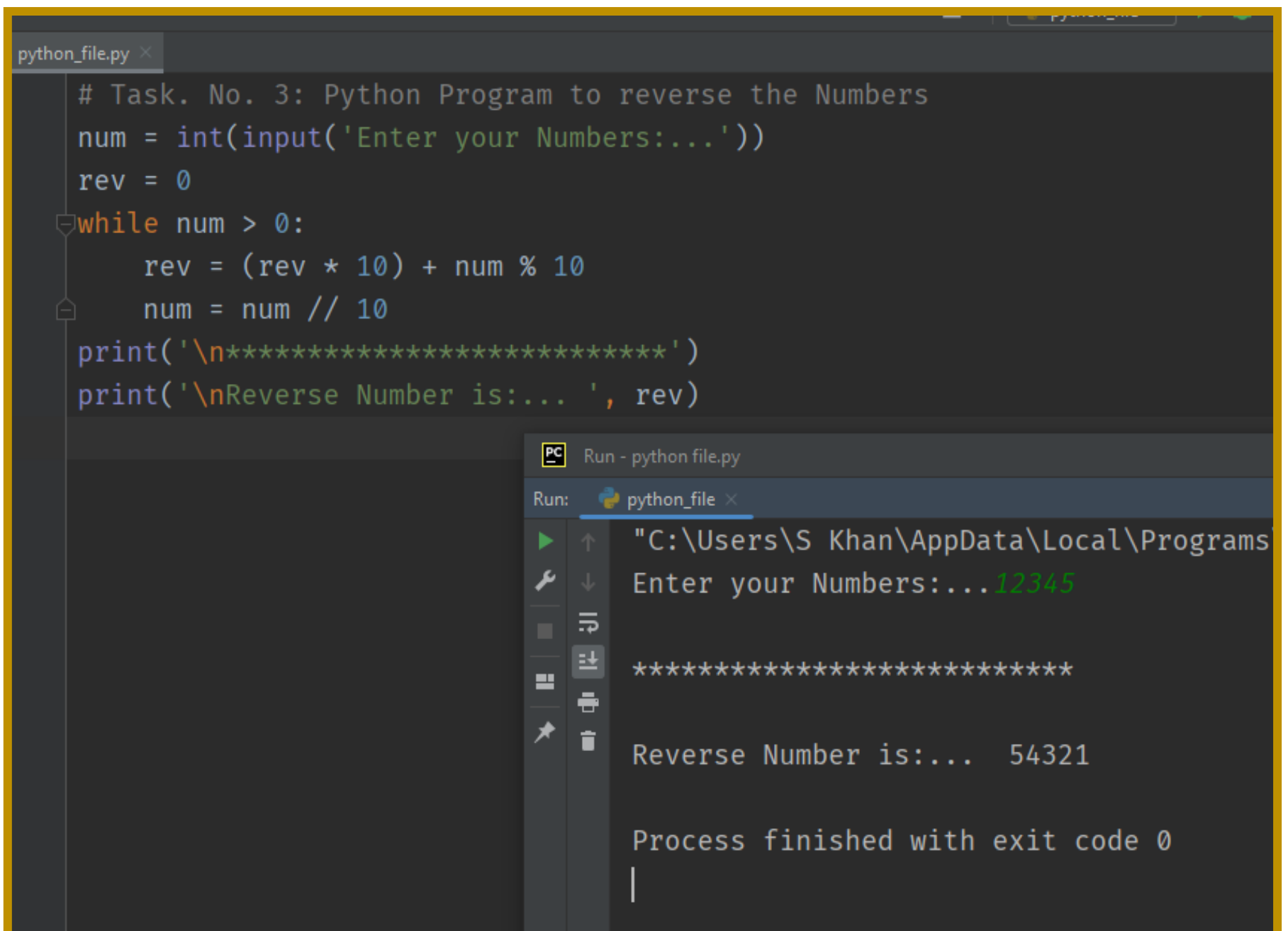
The image shows a Python IDE with a file named `hon_file.py`. The code in the editor is as follows:

```
# Display the first 7 multiples of 7 using a for loop
mul = 0
print('\nThe first 7 Multiples of 7 is: ')
for i in range(1, 8):
    mul = 7 * i
    print(mul, end='    ')
print('')
```

The code is executed, and the output is displayed in the Run console:

```
Run - python file.py
python_file x
"C:\Users\S Khan\AppData\Local\Programs\Python\Pytho
The first 7 Multiples of 7 is:
7    14    21    28    35    42    49
Process finished with exit code 0
```

Q. No. 3:



The image shows a screenshot of a Python IDE with a dark theme. The editor window displays a Python script for reversing a number. The script uses a while loop to extract digits from the input number and build the reversed number. The output window shows the execution results, including the input number 12345 and the reversed number 54321.

```
python_file.py ×  
# Task. No. 3: Python Program to reverse the Numbers  
num = int(input('Enter your Numbers:...'))  
rev = 0  
while num > 0:  
    rev = (rev * 10) + num % 10  
    num = num // 10  
print('\n*****')  
print('\nReverse Number is:... ', rev)
```

Run - python file.py

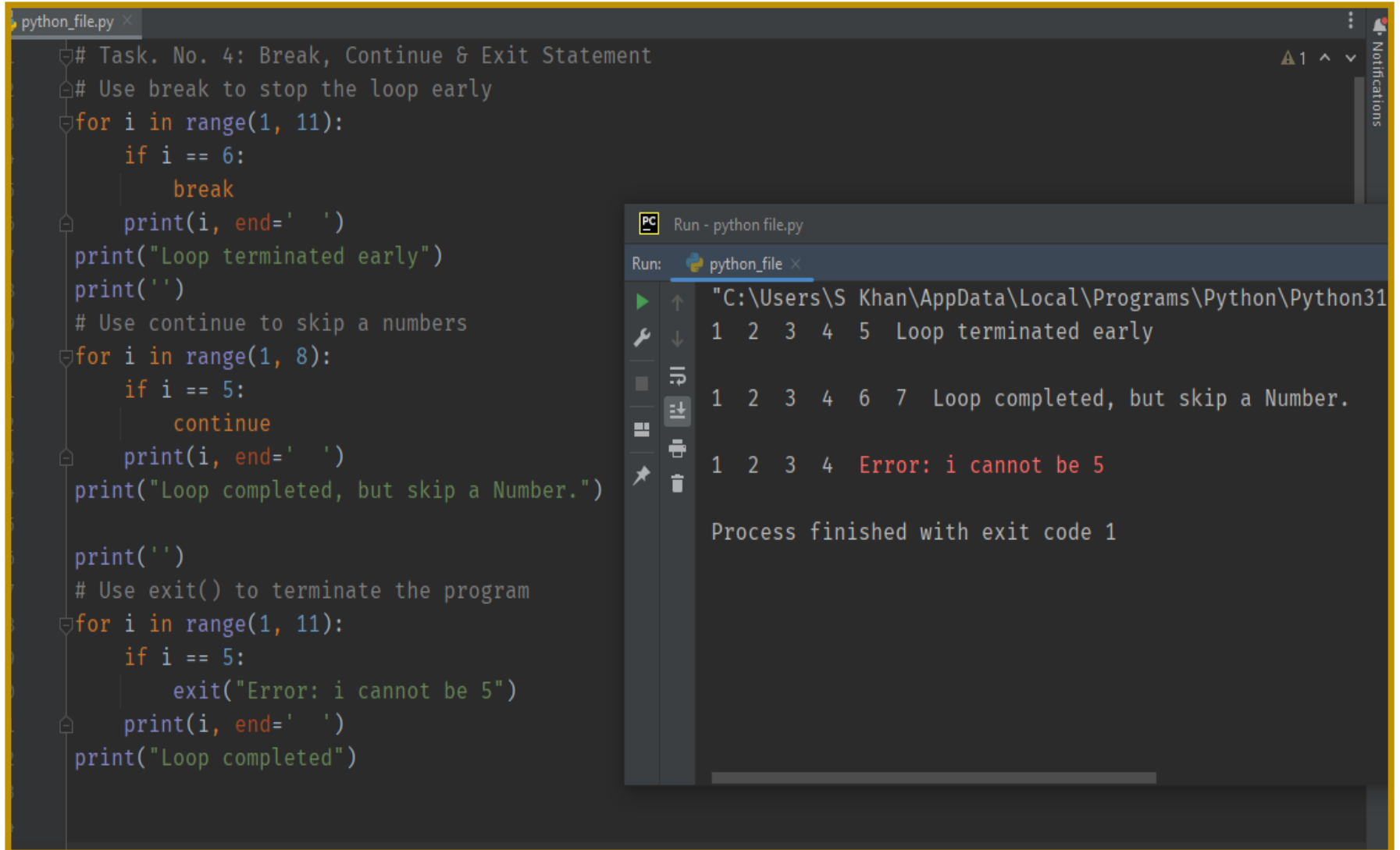
Run: python_file ×

"C:\Users\S Khan\AppData\Local\Programs
Enter your Numbers:...12345

Reverse Number is:... 54321

Process finished with exit code 0

Q. No. 4:



The image shows a Python IDE window titled 'python_file.py' with a dark theme. The code is as follows:

```
# Task. No. 4: Break, Continue & Exit Statement
# Use break to stop the loop early
for i in range(1, 11):
    if i == 6:
        break
    print(i, end=' ')
print("Loop terminated early")
print('')
# Use continue to skip a numbers
for i in range(1, 8):
    if i == 5:
        continue
    print(i, end=' ')
print("Loop completed, but skip a Number.")

print('')
# Use exit() to terminate the program
for i in range(1, 11):
    if i == 5:
        exit("Error: i cannot be 5")
    print(i, end=' ')
print("Loop completed")
```

Below the code editor, a 'Run' window is open, showing the execution output:

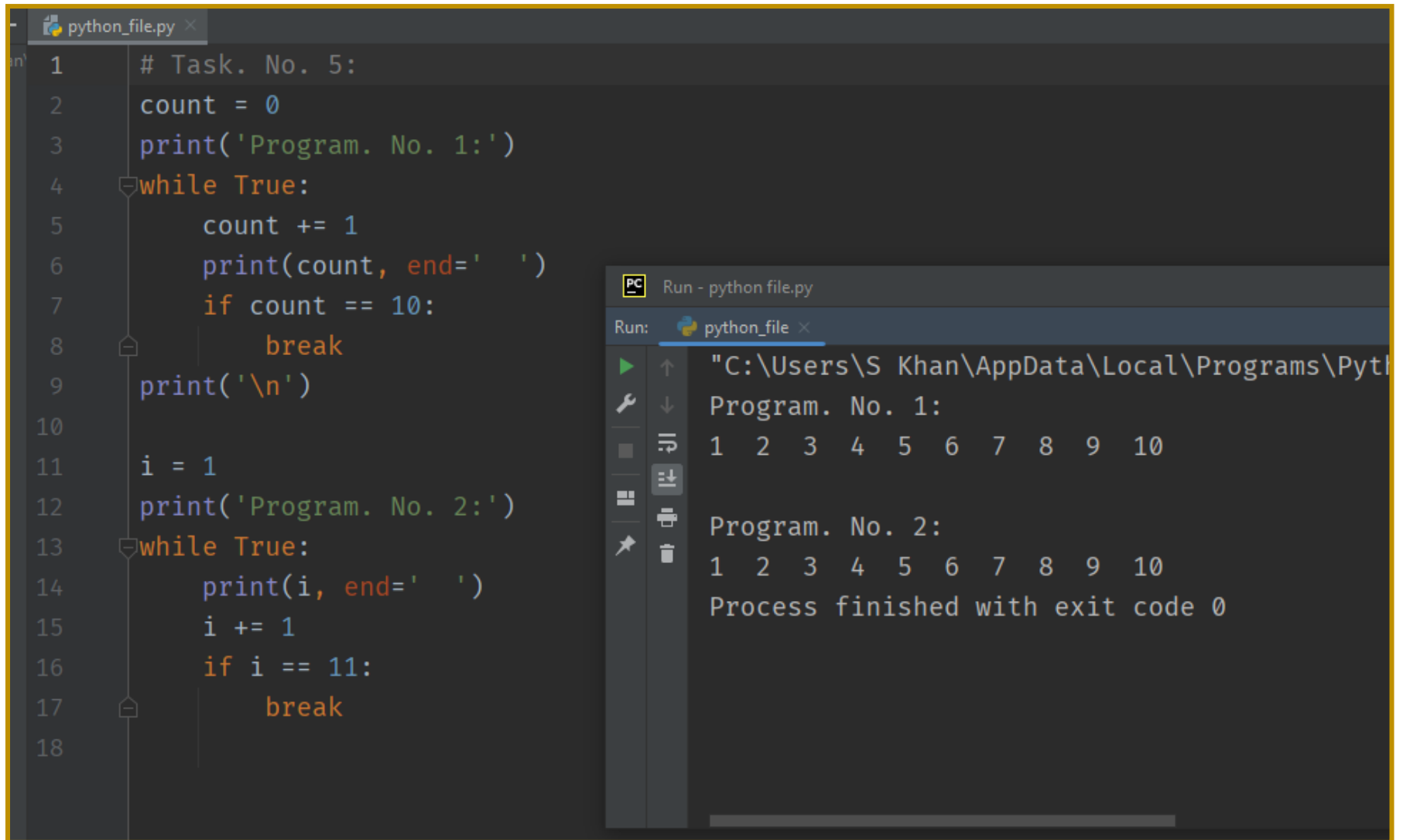
```
Run - python file.py
Run: python_file x
"C:\Users\S Khan\AppData\Local\Programs\Python\Python31
1 2 3 4 5 Loop terminated early

1 2 3 4 6 7 Loop completed, but skip a Number.

1 2 3 4 Error: i cannot be 5

Process finished with exit code 1
```

Q. No. 5:



The image shows a Python IDE with a file named 'python_file.py'. The code defines two programs. Program No. 1 is a while loop that increments a counter from 0 to 10 and prints each value. Program No. 2 is a while loop that increments a counter from 1 to 11 and prints each value. The output window shows the execution of both programs, displaying the numbers 1 through 10 for each, followed by the message 'Process finished with exit code 0'.

```
1 # Task. No. 5:
2 count = 0
3 print('Program. No. 1:')
4 while True:
5     count += 1
6     print(count, end=' ')
7     if count == 10:
8         break
9 print('\n')
10
11 i = 1
12 print('Program. No. 2:')
13 while True:
14     print(i, end=' ')
15     i += 1
16     if i == 11:
17         break
18
```

Run - python file.py

Run: python_file x

"C:\Users\S Khan\AppData\Local\Programs\Python\Python38\python.exe"

Program. No. 1:

1 2 3 4 5 6 7 8 9 10

Program. No. 2:

1 2 3 4 5 6 7 8 9 10

Process finished with exit code 0

The End