

1.

1.global scope is value="p" and local scope is value = "q" local scope has in to the function .

2. 2.1 False

2.2 False

2.3 45

2.4 16

2.5 True

2.find the minimum number given list.

The screenshot shows the PyCharm IDE interface. The left sidebar displays the project structure for 'pythonProject4', including folders like '.venv', 'Lib', 'Scripts', and files like '.gitignore' and 'pyvenv.cfg'. The main editor window shows a file named 'exam 1.py' with the following code:

```
1 list = [20, 8, 10, 2, 4]
2
3 # Find the minimum number in given the list
4 minimum_number = min(list)
5 print("The minimum number in the list is:", minimum_number)
6
```

The bottom panel shows the 'Run' output for 'exam 1'. The command executed is 'C:\Users\sahan\PycharmProjects\pythonProject4\.venv\Scripts\python.exe "C:\Users\sahan\PycharmProjects\pythonProject4\exam 1.py"'. The output is 'The minimum number in the list is: 2'. The process finished with exit code 0.

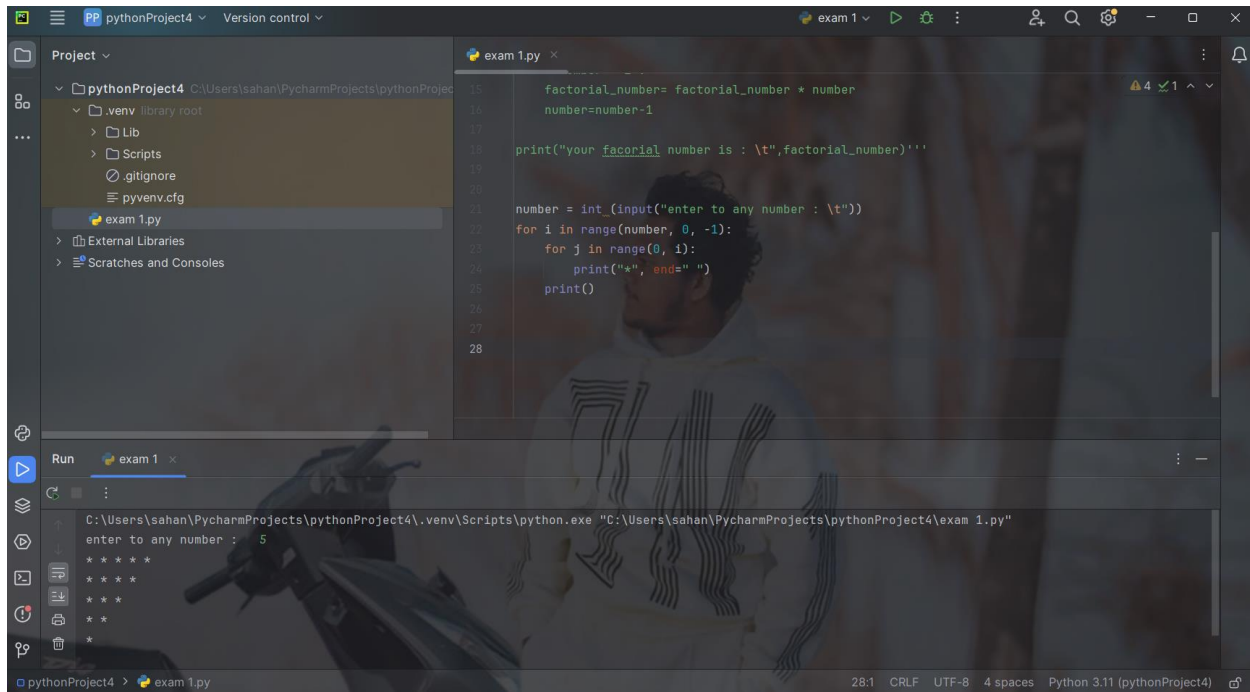
3.find the factorial of a number

The screenshot shows the PyCharm IDE interface. The left sidebar displays the project structure for 'pythonProject4'. The main editor window shows a file named 'exam 1.py' with the following code:

```
1 # Find the minimum number in given the list
2 minimum_number = min(list)
3 print("The minimum number in the list is:", minimum_number)
4
5
6 numbers=int(input("enter any positive number:\t"))
7 factorial_number=1
8 if number <= 0 :
9     number = int(input("enter any positive number:\t"))
10 while number > 1:
11     factorial_number= factorial_number * number
12     number=number-1
13
14 print("your factorial number is : \t",factorial_number)
15
16
17 while number > 1
18
19
20
```

The bottom panel shows the 'Run' output for 'exam 1'. The command executed is 'C:\Users\sahan\PycharmProjects\pythonProject4\.venv\Scripts\python.exe "C:\Users\sahan\PycharmProjects\pythonProject4\exam 1.py"'. The output shows the user inputting '4' and '5', and the program outputting 'your factorial number is : 120'. The process finished with exit code 0.

4.implement this pattern



The screenshot shows the PyCharm IDE interface. The top toolbar includes icons for running, debugging, and other development tools. The left sidebar displays the project structure for 'pythonProject4', including a virtual environment (.venv) and various files like Lib, Scripts, .gitignore, and pyvenv.cfg. The main editor window shows the file 'exam 1.py' with the following Python code:

```
15 factorial_number= factorial_number * number
16 number=number-1
17
18 print("your facorial number is : \t",factorial_number)'''
19
20
21 number = int(input("enter to any number : \t"))
22 for i in range(number, 0, -1):
23     for j in range(0, i):
24         print("x", end=" ")
25     print()
26
27
28
```

Below the editor, the 'Run' console shows the execution of the program. It displays the command prompt path, the input '5', and the resulting output of five lines of stars:

```
C:\Users\sahan\PycharmProjects\pythonProject4\.venv\Scripts\python.exe "C:\Users\sahan\PycharmProjects\pythonProject4\exam 1.py"
enter to any number : 5
*****
*****
*****
*****
*****
```

The bottom status bar indicates the current file is 'exam 1.py' and provides details about the editor settings: 28:1, CRLF, UTF-8, 4 spaces, Python 3.11 (pythonProject4).