

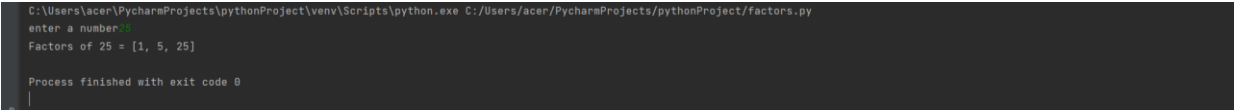
**Aim:**

Generate all factors of a number

**Algorithm:**

```
num=int(input("enter a number"))
factors=[]
for i in range(1,num+1):
    if num%i==0:
        factors.append(i)

print ("Factors of {} = {}".format(num,factors))
```

**Output:**A screenshot of a terminal window with a dark background. The first line shows the command to run a Python script: `C:\Users\acer\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/acer/PycharmProjects/pythonProject/factors.py`. The second line shows the program's prompt `enter a number` followed by the user input `25`. The third line shows the output: `Factors of 25 = [1, 5, 25]`. The final line shows the process completion: `Process finished with exit code 0`.

```
C:\Users\acer\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/acer/PycharmProjects/pythonProject/factors.py
enter a number 25
Factors of 25 = [1, 5, 25]
Process finished with exit code 0
```