

**Aim:**

Generate factor of a number

**Algorithm:**

```
num=int(input("enter a number"))
def factor(n):
    for i in range(1,num+1):
        if n%i==0:
            print(i)
factor(num)
```

**output:**

The screenshot shows a PyCharm IDE interface. The main editor window displays a Python script for finding factors. The terminal window at the bottom shows the execution of the script. The user has entered '10' as the number, and the program has printed the factors 1, 2, 5, and 10. The terminal output is as follows:

```
C:\Users\LENOVO\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/LENOVO/PycharmProjects/pythonProject/gcd.py
enter a number 10
1
2
5
10
Process finished with exit code 0
```

On the right side of the terminal, there is a notification for PyCharm 2020.3.5 available and a Windows activation watermark that says 'Activate Windows. Go to Settings to activate Windows.'