

12. Write a program to find the perfect number.

```
def is_perfect(num):
```

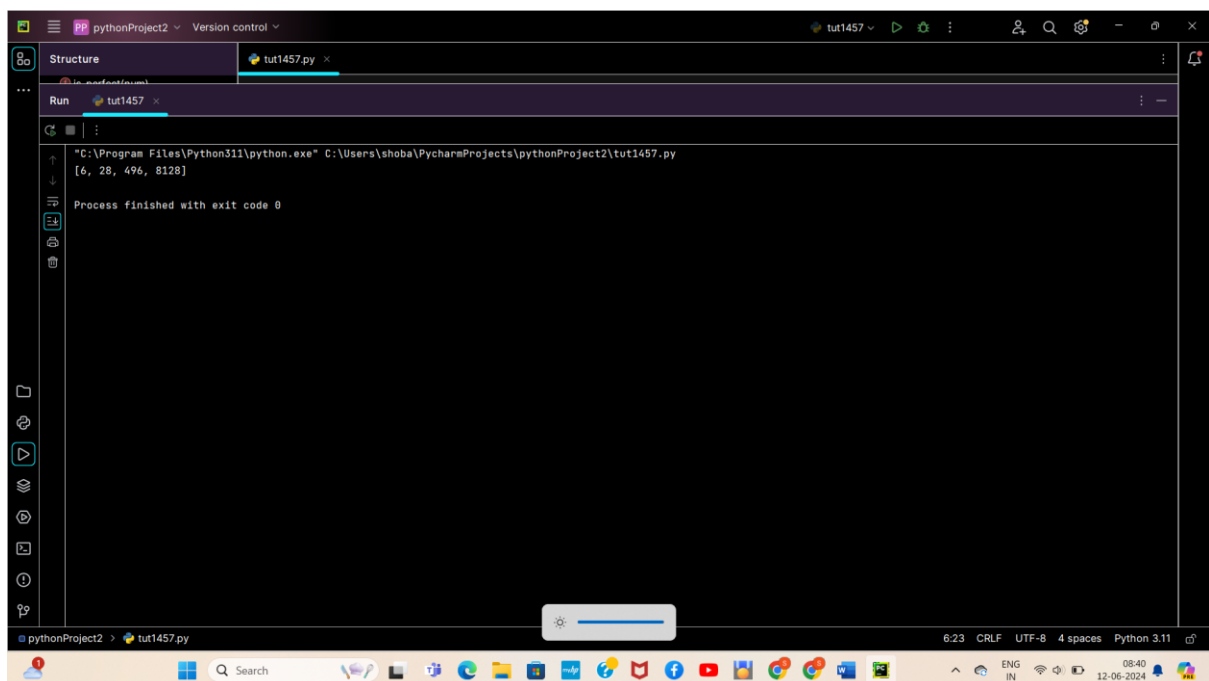
```
    sum_divisors = sum([i for i in range(1, num) if num % i == 0])
```

```
    return sum_divisors == num
```

```
perfect_numbers = [num for num in range(1, 10000) if is_perfect(num)]
```

```
print(perfect_numbers)
```

Output:



The screenshot shows the PyCharm IDE interface. The top toolbar includes icons for Run, Debug, and other development tools. The 'Run' tab is active, showing the command executed: `"C:\Program Files\Python311\python.exe" C:\Users\shoba\PycharmProjects\pythonProject2\tut1457.py`. The output of the program is displayed as `[6, 28, 496, 8128]`. Below the output, it states 'Process finished with exit code 0'. The bottom status bar shows the file path `@ pythonProject2 > tut1457.py`, the time `6:23`, encoding `CRLF`, file encoding `UTF-8`, indentation `4 spaces`, and the Python version `Python 3.11`. The Windows taskbar at the bottom shows the search bar and various application icons.