

Project

pythonProject2 C:\Users\kativ\PycharmProjects\p

venv library root

Lib

Scripts

.gitignore

pyenv.cfg

External Libraries

Scratches and Consoles

Scratches

- armstrong non recursive.py
- armstrong recursive.py
- Binary search.py
- copy the program non recursive.py
- copy the program recursive.py
- fact non recursive.py
- fact recursive.py
- fib non recursive.py
- fib recursive.py
- gcd non recursive.py
- gcd recursive.py

```
1 def binarysearch(array, x, low, high):
2     while low <= high:
3         mid = low + (high - low) // 2
4         if array[mid] == x:
5             return mid
6         elif array[mid] < x:
7             low = mid + 1
8         else:
9             high = mid + 1
10    return -1
11    array = [5, 6, 9, 79, 89]
12    x = 9
13    result = binarysearch(array, x, 0, len(array) - 1)
14    if result != -1:
15        print("element is present at the index- " + str(result))
16    else:
17        print("not found")
```

Run: Binary search

C:\Users\kativ\PycharmProjects\pythonProject2\venv\Scripts\python.exe "C:/Users/kativ/AppData/Roaming/JetBrains/PyCharmCE2022.1/scratches/Bina

element is present at the index- 2

Process finished with exit code 0