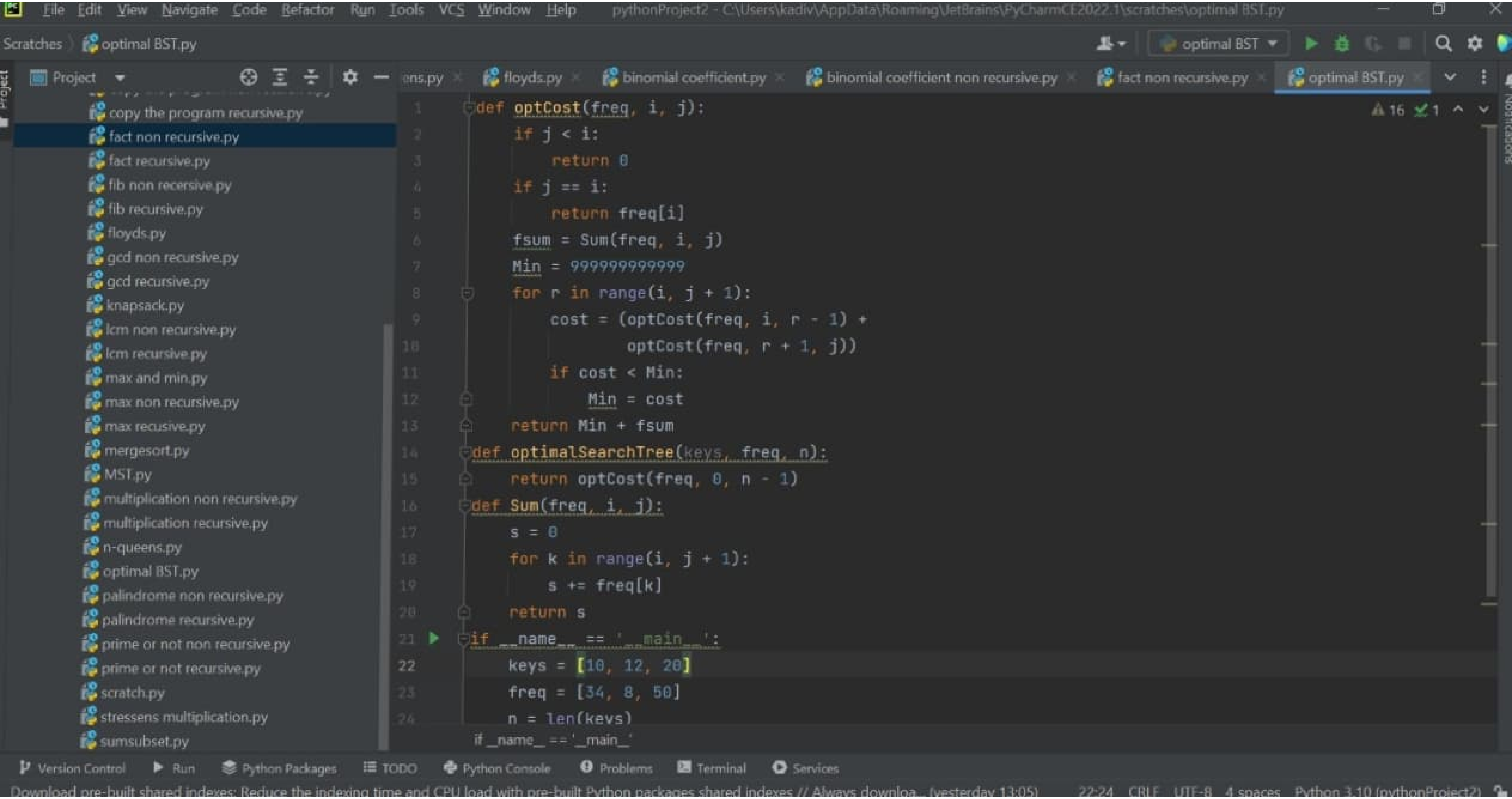
File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject2 - C:\Users\kadiv\AppData\Roaming\JetBrains\PyCharmCE2022.1\scratches\optimal BST.py
Scratches
optimal BST.py
optimal BST
Project
ens.py
floyds.py
binomial coefficient.py
binomial coefficient non recursive.py
fact non recursive.py
optimal BST.py
copy the program recursive.py
fact non recursive.py
fact recursive.py
fib non recersive.py
fib recursive.py
floyds.py
gcd non recursive.py
gcd recursive.py
knapsack.py
lcm non recursive.py
lcm recursive.py
max and min.py
max non recursive.py
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mergesort.py
MST.py
multiplication non recursive.py
multiplication recursive.py
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palindrome non recursive.py
palindrome recursive.py
prime or not non recursive.py
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stressens multiplication.py
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if _name_ == '_main_'
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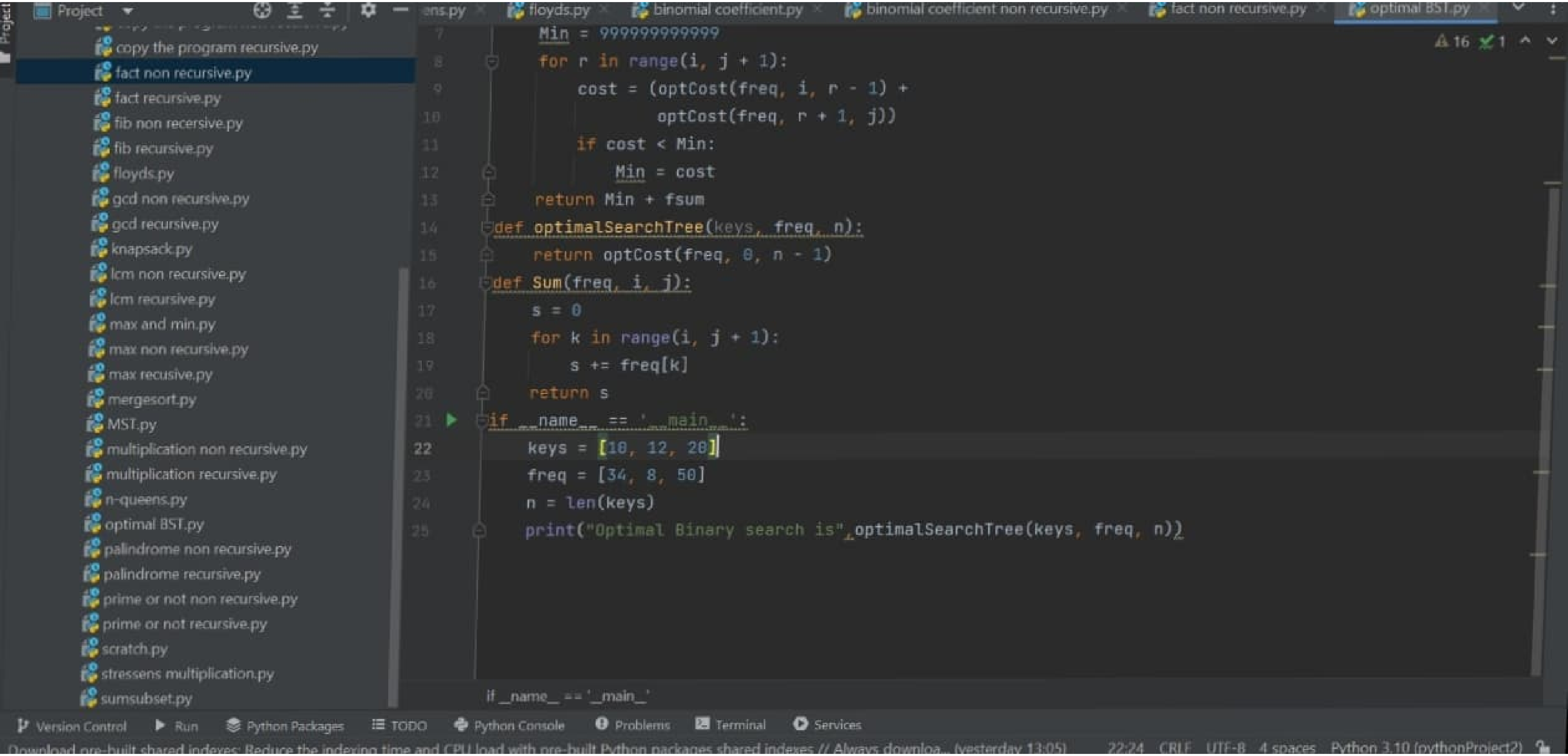
Services
22:24
CRLF
UTF-8
4 spaces
Python 3.10 (pythonProject2)

```python
def optCost(freq, i, j):
    if j < i:
        return 0
    if j == i:
        return freq[i]
    fsum = Sum(freq, i, j)
    Min = 999999999999
    for r in range(i, j + 1):
        cost = (optCost(freq, i, r - 1) +
                optCost(freq, r + 1, j))
        if cost < Min:
            Min = cost
    return Min + fsum
def optimalSearchTree(keys, freq, n):
    return optCost(freq, 0, n - 1)
def Sum(freq, i, j):
    s = 0
    for k in range(i, j + 1):
        s += freq[k]
    return s
if __name__ == '__main__':
    keys = [10, 12, 20]
    freq = [34, 8, 50]
    n = len(keys)
```

Download pre-built shared indexes: Reduce the indexing time and CPU load with pre-built Python packages shared indexes // Always downloa... (yesterday 13:05)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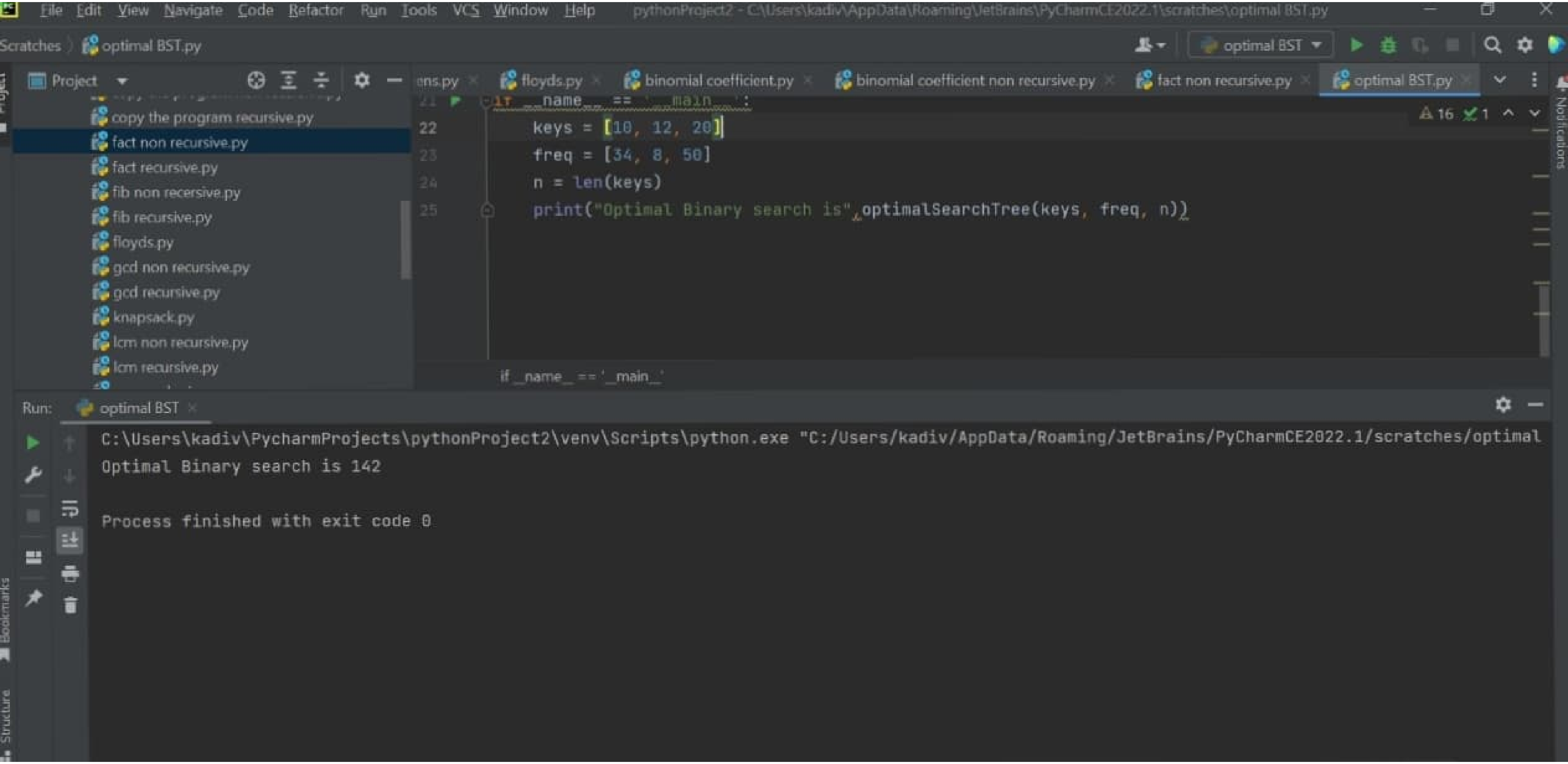
Python 3.10 (pythonProject2)

```python
    Min = 999999999999
    for r in range(i, j + 1):
        cost = (optCost(freq, i, r - 1) +
                optCost(freq, r + 1, j))
        if cost < Min:
            Min = cost
    return Min + fsum
def optimalSearchTree(keys, freq, n):
    return optCost(freq, 0, n - 1)
def Sum(freq, i, j):
    s = 0
    for k in range(i, j + 1):
        s += freq[k]
    return s
if __name__ == '__main__':
    keys = [10, 12, 20]
    freq = [34, 8, 50]
    n = len(keys)
    print("Optimal Binary search is",optimalSearchTree(keys, freq, n))
```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if __name__ == '__main__'
Run:
optimal BST
Bookmarks
Structure
Notifications

```
if __name__ == '__main__':
    keys = [10, 12, 20]
    freq = [34, 8, 50]
    n = len(keys)
    print("Optimal Binary search is",optimalSearchTree(keys, freq, n))
```

```
C:\Users\kadiv\PycharmProjects\pythonProject2\venv\Scripts\python.exe "C:/Users/kadiv/AppData/Roaming/JetBrains/PyCharmCE2022.1/scratches/optimal
Optimal Binary search is 142

Process finished with exit code 0
```