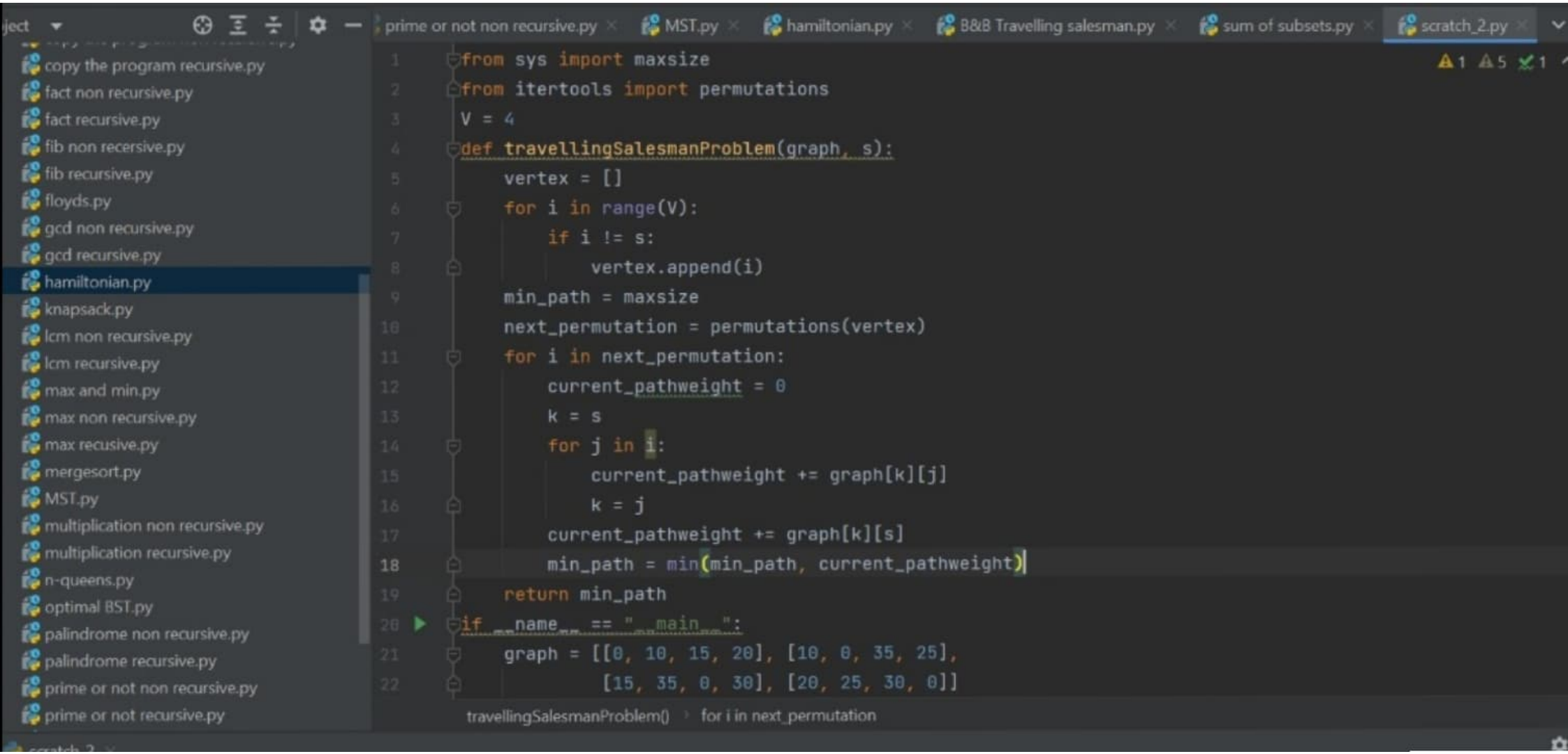
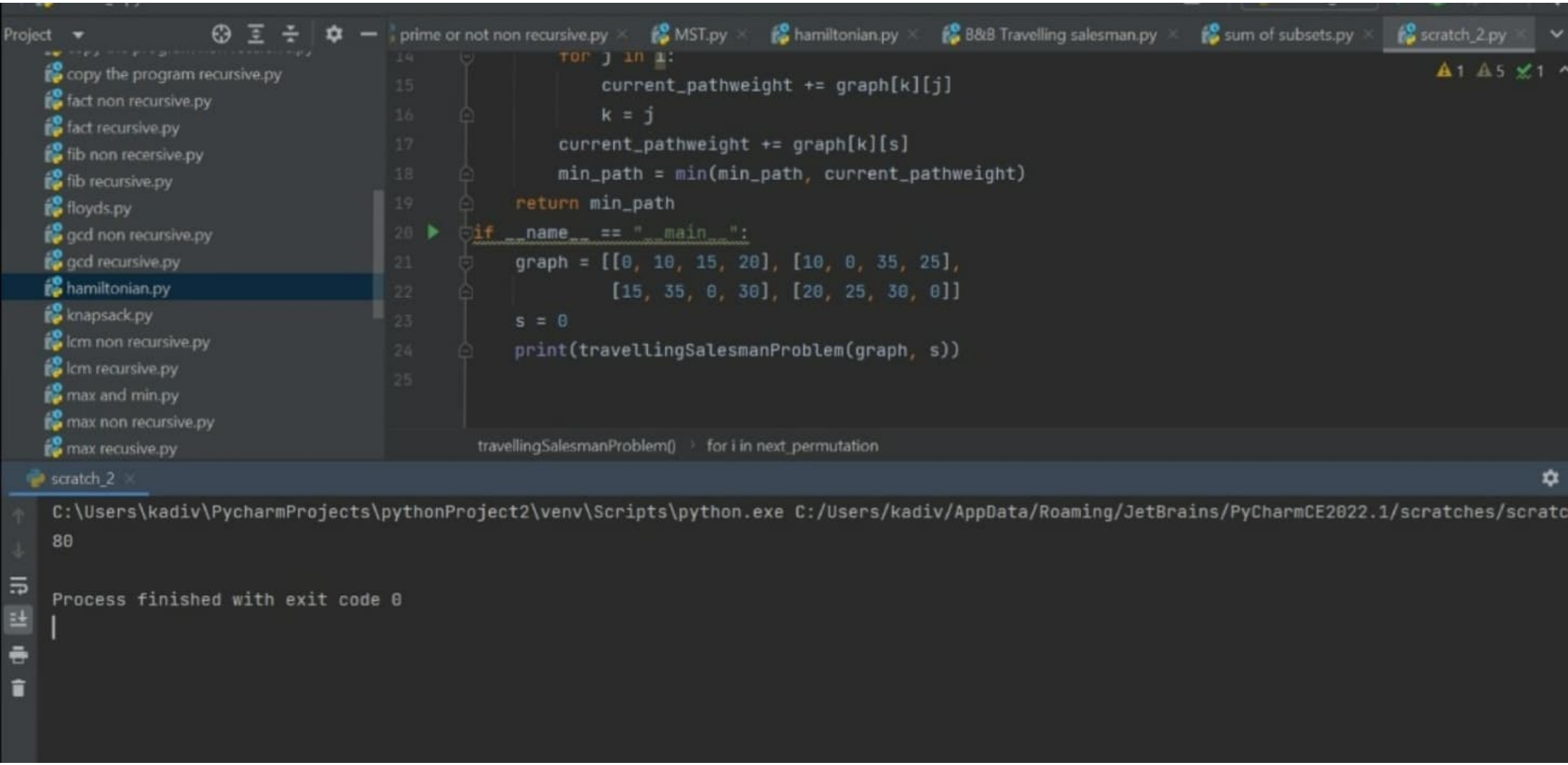

prime or not non recursive.py
MST.py
hamiltonian.py
B&B Travelling salesman.py
sum of subsets.py
scratch_2.py
copy the program recursive.py
fact non recursive.py
fact recursive.py
fib non recersive.py
fib recursive.py
floyds.py
gcd non recursive.py
gcd recursive.py
hamiltonian.py
knapsack.py
lcm non recursive.py
lcm recursive.py
max and min.py
max non recursive.py
max recusive.py
mergesort.py
MST.py
multiplication non recursive.py
multiplication recursive.py
n-queens.py
optimal BST.py
palindrome non recursive.py
palindrome recursive.py
prime or not non recursive.py
prime or not recursive.py
from sys import maxsize
from itertools import permutations
V = 4
def travellingSalesmanProblem(graph, s):
vertex = []
for i in range(V):
if i != s:
vertex.append(i)
min_path = maxsize
next_permutation = permutations(vertex)
for i in next_permutation:
current_pathweight = 0
k = s
for j in i:
current_pathweight += graph[k][j]
k = j
current_pathweight += graph[k][s]
min_path = min(min_path, current_pathweight)
return min_path
if __name__ == "__main__":
graph = [[0, 10, 15, 20], [10, 0, 35, 25],
[15, 35, 0, 30], [20, 25, 30, 0]]
travellingSalesmanProblem() › for i in next_permutation


Project
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
hamiltonian.py
knapsack.py
lcm non recursive.py
lcm recursive.py
max and min.py
max non recursive.py
max recusive.py
prime or not non recursive.py
MST.py
hamiltonian.py
B&B Travelling salesman.py
sum of subsets.py
scratch_2.py
for j in i:
current_pathweight += graph[k][j]
k = j
current_pathweight += graph[k][s]
min_path = min(min_path, current_pathweight)
return min_path
if __name__ == "__main__":
graph = [[0, 10, 15, 20], [10, 0, 35, 25],
[15, 35, 0, 30], [20, 25, 30, 0]]
s = 0
print(travellingSalesmanProblem(graph, s))
travellingSalesmanProblem()
for i in next_permutation
scratch_2
C:\Users\kadiv\PycharmProjects\pythonProject2\venv\Scripts\python.exe C:/Users/kadiv/AppData/Roaming/JetBrains/PyCharmCE2022.1/scratches/scratc
80
Process finished with exit code 0