```
MST.py
                                                                             & hamiltonian.py
                                                                                                & B&B Travelling salesman.py ×
                                                                                                                           sum of subsets.py
                                                                                                                                                scratch_2.py
                                             from sys import maxsize
                                                                                                                                                    A1 A5 ×1
acopy the program recursive.py
                                             from itertools import permutations
fact non recursive.py
fact recursive.py
                                              V = 4
fib non recersive.pv
                                             def travellingSalesmanProblem(graph, s):
fib recursive.py
                                                  vertex = []
floyds.py
                                                  for i in range(V):
gcd non recursive.py
gcd recursive.py
                                                           vertex.append(i)
& hamiltonian.py
                                                  min_path = maxsize
knapsack.py
                                                  next_permutation = permutations(vertex)
lcm non recursive.py
                                                  for i in next_permutation:
lcm recursive.py
                                                       current_pathweight = 0
and min.py
max non recursive.py
max recusive.py
                                                       for j in i:
mergesort.py
                                                           current_pathweight += graph[k][j]
MST.py
multiplication non recursive.py
                                                       current_pathweight += graph[k][s]
multiplication recursive.py
                                                       min_path = min(min_path, current_pathweight)
n-queens.py
                                                  return min_path
optimal BST.py
                                              if __name__ == "__main__":
palindrome non recursive.py
                                                  graph = [[0, 10, 15, 20], [10, 0, 35, 25],
palindrome recursive.py
                                                            [15, 35, 0, 30], [20, 25, 30, 0]]
prime or not non recursive.py
                                              travellingSalesmanProblem() of for i in next permutation
prime or not recursive.py
```

```
88xB Travelling salesman.py
                                                                                                                                                                                                                                                                                                                                                                                                           sum of subsets.py
                                                                                                                                                                                                                  MST.py
                                                                                                                                                                                                                                                          & hamiltonian.py
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             scratch_2.py
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A1 A5 ×1
      copy the program recursive.py
                                                                                                                                                                                                 current_pathweight += graph[k][j]
      fact non recursive.py
                                                                                                                                                                                                 k = i
      fact recursive.py
                                                                                                                                                                                  current_pathweight += graph[k][s]
      fib non recersive.py
                                                                                                                                                                                  min_path = min(min_path, current_pathweight)
      fib recursive.py
                                                                                                                                                                   return min_path
      floyds.py
      gcd non recursive.py
     acd recursive.py
                                                                                                                                                                   graph = [[0, 10, 15, 20], [10, 0, 35, 25],
     hamiltonian.py
                                                                                                                                                                                                    [15, 35, 0, 30], [20, 25, 30, 0]]
     knapsack.py
      lcm non recursive.py
                                                                                                                                                                   print(travellingSalesmanProblem(graph, s))
      lcm recursive.py.
      max and min.py
      max non recursive.py
                                                                                                                                                       travellingSalesmanProblem() for i in next permutation
     max recusive.py
scratch 2
       C:\Users\kadiv\PycharmProjects\pythonProject2\venv\Scripts\python.exe C:/Users/kadiv/AppData/Roaming/JetBrains/PyCharmCE2022.1/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches/scratches
        80
        Process finished with exit code 0
```