```
1  "E:\1 □□□□\3 □□□□□\1 □□□□□□□□\1 □□□□□□□□□\1_□□□□□□_□□□□\1_LW_□□□□2\6 □□□□\2 python code\01_My_Python_Code\Scripts\python.
   exe" "D:\Python\Pycharm\setroute\PyCharm Community Edition 2021.2.3\plugins\python-ce\helpers\pydev\pydevconsole.py" --mode=client --port=6393
2
3  import sys; print('Python %s on %s' % (sys.version, sys.platform))
4  sys.path.extend(['E:\\1 □□□□\\3 □□□□□\\1 □□□□□□□□\\1 □□□□□□□□□\\1_□□□□□□_□□□□\\1_LW_□□□□2\\6 □□□□\\2 python code\\
   01_My_Python_Code', 'E:/1 □□□□/3 □□□□□/1 □□□□□□□□/1 □□□□□□□□□/1_□□□□□□_□□□□/1_LW_□□□□2/6 □□□□/2 python code/
   01_My_Python_Code'])
5
6  PyDev console: starting.
7
8  Python 3.9.7 (tags/v3.9.7:1016ef3, Aug 30 2021, 20:19:38) [MSC v.1929 64 bit (AMD64)] on win32
9  >>> runfile('E:/1 □□□□/3 □□□□□/1 □□□□□□□□/1 □□□□□□□□□/1_□□□□□□_□□□□/1_LW_□□□□2/6 □□□□/2 python code/01_My_Python_Code/
   main_BACASP_official_gurobi.py', wdir='E:/1 □□□□/3 □□□□□/1 □□□□□□□□/1 □□□□□□□□□/1_□□□□□□_□□□□/1_LW_□□□□2/6 □□□□/2 python
   code/01_My_Python_Code')
10 Backend TkAgg is interactive backend. Turning interactive mode on.
11 Start.....
12
13 This is the  R_7_4 _standerd_test.xlsx  optimization results solved by Gurobi
14
15 Set parameter TimeLimit to value 1200
16 Set parameter MIPGap to value 0.005
17
18
19
20 Problem status =  2 , is Optimal
21
22 Problem has 2  objectives
23 Gurobi found  10  solutions
24    Solution 0 :
25       Obj 0  =  4.0
26       Obj 1  =  3.0
27    Solution 1 :
28       Obj 0  =  4.0
29       Obj 1  =  5.0
30    Solution 2 :
31       Obj 0  =  5.0
32       Obj 1  =  7.0
33    Solution 3 :
34       Obj 0  =  6.0
35       Obj 1  =  8.0
36    Solution 4 :
37       Obj 0  =  7.0
38       Obj 1  =  8.0
39    Solution 5 :
40       Obj 0  =  8.0
41       Obj 1  =  8.0
42    Solution 6 :
43       Obj 0  =  16.0
44       Obj 1  =  26.0
45    Solution 7 :
46       Obj 0  =  17.0
47       Obj 1  =  28.0
48    Solution 8 :
49       Obj 0  =  21.0
50       Obj 1  =  45.0
51    Solution 9 :
52       Obj 0  =  22.0
53       Obj 1  =  59.0
54
55
56
57 Final solution:
58    Obj0 =  3.0
59    Obj1 =  3.0
60    Total movement of crane:  0.0
61    Total duration time in berth position:  20.0
62    Total index of q during berthing:  462.0
63
64    Specific arrangement:
65       V_id:  0  li: 3.0  xi: 1.5  bow of i: 0.0   tail of i: 3.0 gama_i0: -0.0  gama_i1: 4.0  duration_time_i: 4.0  demand_i: 160   work load_i: 160.0
66       V_id:  1  li: 6.0  xi: 9.0  bow of i: 6.0   tail of i: 12.0   gama_i0: -0.0  gama_i1: 1.0  duration_time_i: 1.0  demand_i: 100   work load_i: 100.0
67       V_id:  2  li: 9.0  xi: 13.5  bow of i: 9.0   tail of i: 18.0   gama_i0: 2.0  gama_i1: 4.0  duration_time_i: 2.0  demand_i: 160   work load_i: 160.0
68       V_id:  3  li: 3.0  xi: 4.5  bow of i: 3.0   tail of i: 6.0 gama_i0: -0.0  gama_i1: 4.0  duration_time_i: 4.0  demand_i: 100   work load_i: 100.0
69       V_id:  4  li: 9.0  xi: 22.8   bow of i: 18.3 tail of i: 27.3   gama_i0: -0.0  gama_i1: 4.0  duration_time_i: 4.0  demand_i: 140   work load_i: 140.0
70       V_id:  5  li: 3.0  xi: 7.5  bow of i: 6.0   tail of i: 9.0 gama_i0: 1.0  gama_i1: 4.0  duration_time_i: 3.0  demand_i: 120   work load_i: 120.0
71       V_id:  6  li: 5.0  xi: 15.5   bow of i: 13.0 tail of i: 18.0   gama_i0: -0.0  gama_i1: 2.0  duration_time_i: 2.0  demand_i: 100   work load_i: 100.0
72
73
74 Finished and CPU Time: 683.000000
75
76
77
78
```