```
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=33796
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_5_9 _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  =  1.0
27     Solution 1 :
28         Obj 0  =  4.0
29         Obj 1  =  2.0
30     Solution 2 :
31         Obj 0  =  16.0
32         Obj 1  =  29.0
33     Solution 3 :
34         Obj 0  =  17.0
35         Obj 1  =  29.0
36     Solution 4 :
37         Obj 0  =  18.0
38         Obj 1  =  32.0
39     Solution 5 :
40         Obj 0  =  19.0
41         Obj 1  =  34.0
42     Solution 6 :
43         Obj 0  =  22.0
44         Obj 1  =  37.0
45     Solution 7 :
46         Obj 0  =  23.0
47         Obj 1  =  40.0
48     Solution 8 :
49         Obj 0  =  24.0
50         Obj 1  =  38.0
51     Solution 9 :
52         Obj 0  =  33.0
53         Obj 1  =  53.0
54
55
56
57 Final solution:
58     Obj0 =  3.0
59     Obj1 =  1.0
60     Total movement of crane:  0.0
61     Total duration time in berth position:  16.0
62     Total index of q during berthing:  354.0
63
64     Specific arrangement:
65       V_id:  0  li: 6.0  xi: 21.2  bow of i: 18.2  tail of i: 24.2  gama_i0: -0.0  gama_i1: 4.0  duration_time_i: 4.0  demand_i: 80  work load_i: 80.0
66       V_id:  1  li: 8.0  xi: 8.0  bow of i: 4.0  tail of i: 12.0  gama_i0: -0.0  gama_i1: 1.0  duration_time_i: 1.0  demand_i: 140  work load_i: 140.0
67       V_id:  2  li: 4.0  xi: 2.0  bow of i: 0.0  tail of i: 4.0  gama_i0: 0.0  gama_i1: 4.0  duration_time_i: 4.0  demand_i: 280  work load_i: 280.0
68       V_id:  3  li: 6.0  xi: 15.0  bow of i: 12.0  tail of i: 18.0  gama_i0: -0.0  gama_i1: 4.0  duration_time_i: 4.0  demand_i: 160  work load_i: 160.0
69       V_id:  4  li: 6.0  xi: 7.0  bow of i: 4.0  tail of i: 10.0  gama_i0: 1.0  gama_i1: 4.0  duration_time_i: 3.0  demand_i: 180  work load_i: 180.0
70
71
72 Finished and CPU Time: 374.000000
73
74
75
76
```