

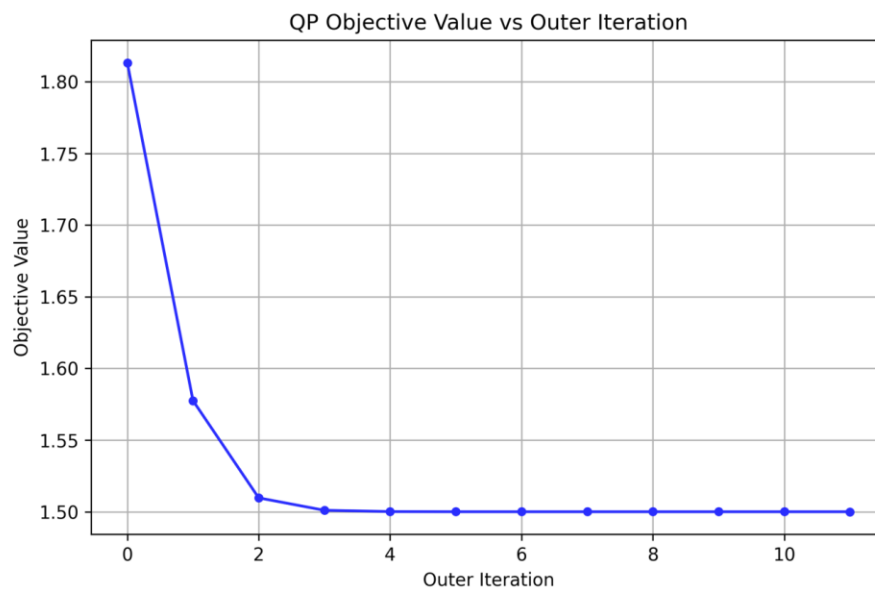
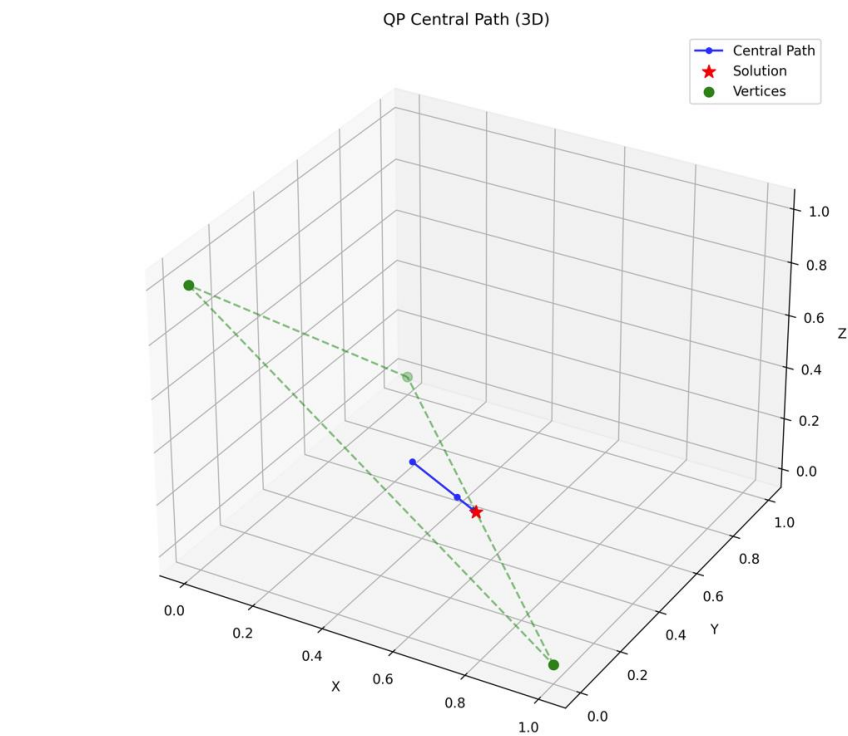
Numerical Optimization – EX04 (programming ex2)

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Link to code: [Github](#)

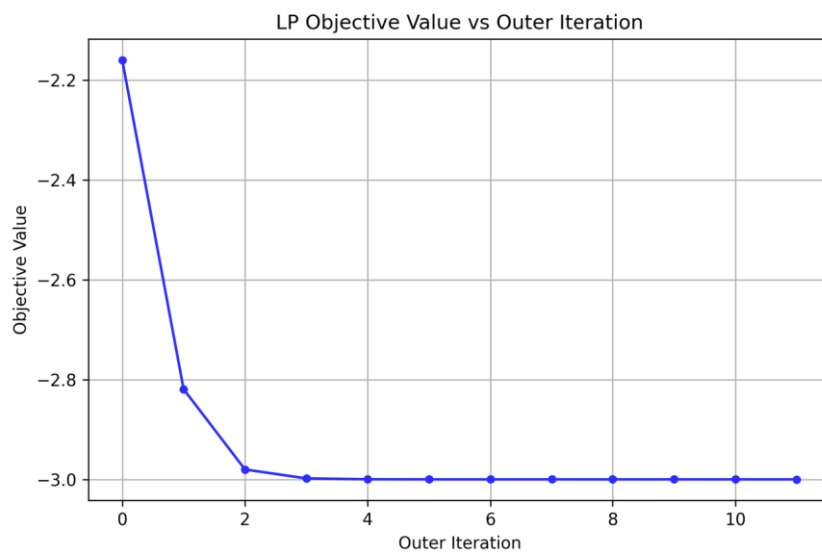
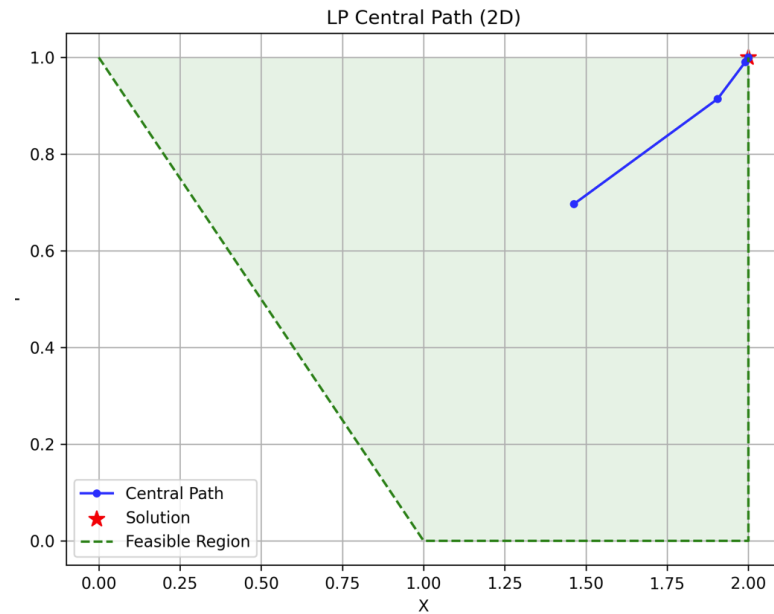
Results below.

QP:



```
Final point: [5.00000000e-01 5.00000000e-01 9.99899096e-12]
Objective: 1.500000
Constraint checks:
  x = 0.500000 ≥ 0: True
  y = 0.500000 ≥ 0: True
  z = 0.000000 ≥ 0: True
  x + y + z == 1: True
```

LP:



```
Final point: [2. 1.]
Objective: 3.000000
Constraint checks:
  x+y ≥ 1: 3.000000 ≥ 1: True
  y ≤ 1: 1.000000 ≤ 1: True
  x ≤ 2: 2.000000 ≤ 2: True
  y ≥ 0: 1.000000 ≥ 0: True
```