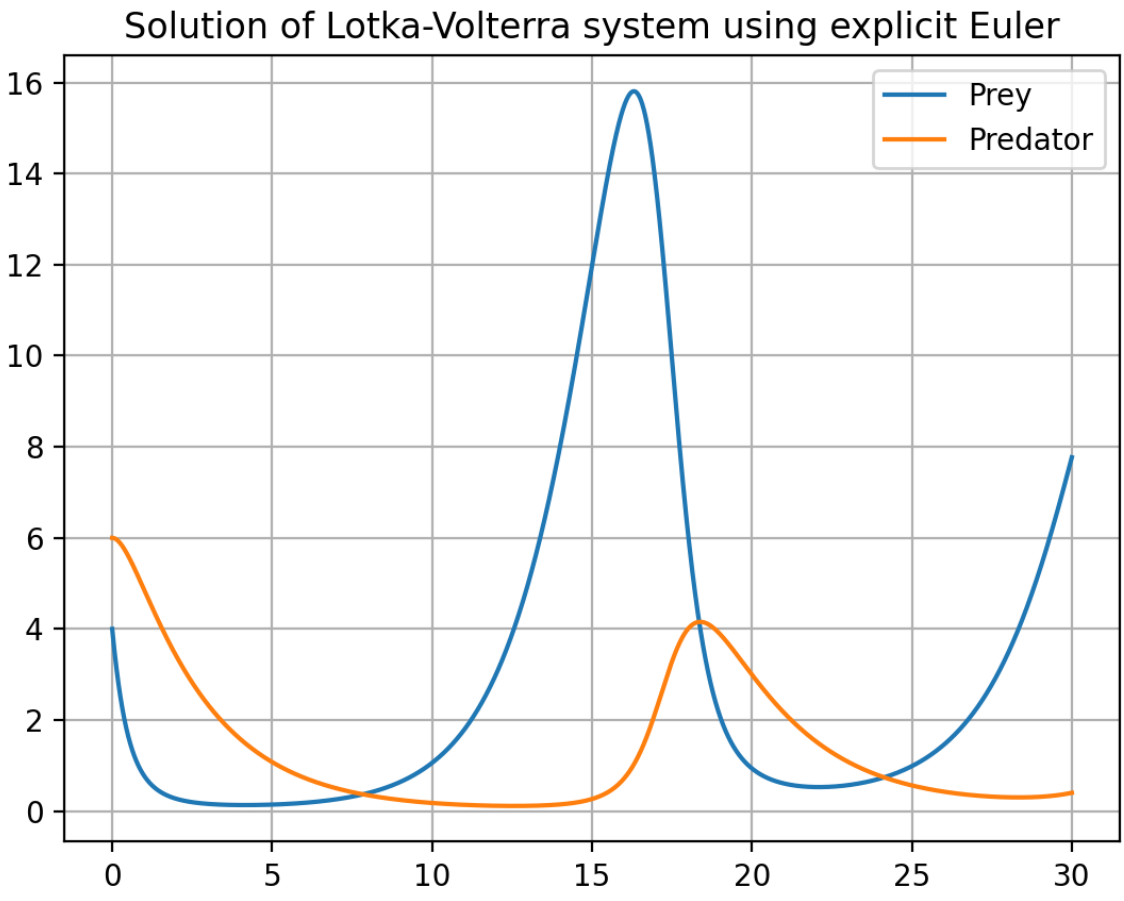
Predator pery model

Here we solve the predator prey model and draw graphs using Euler time stepping method. The values we take are

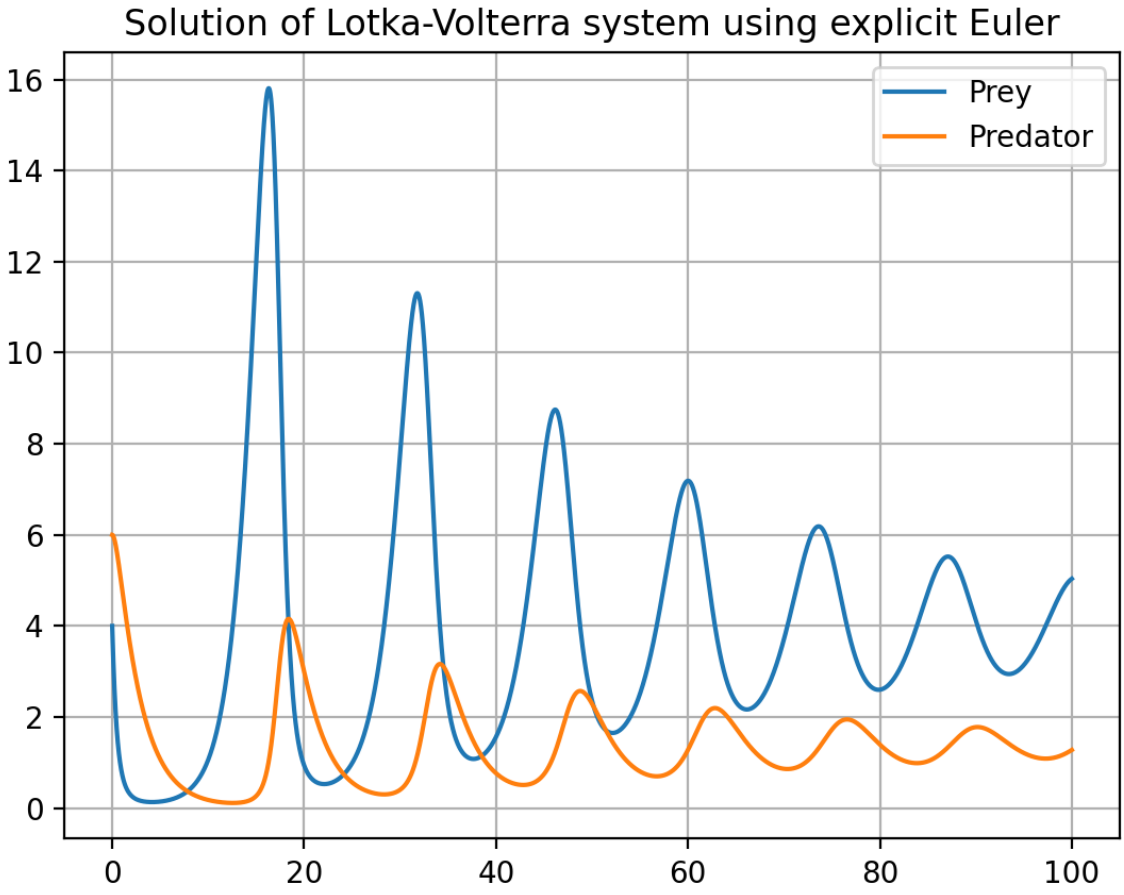
```
gamma = 0.6
c = 0.4
alpha = 0.2
beta = 0.1
K = 50
R0, F0 = 4, 6
```

The plots are

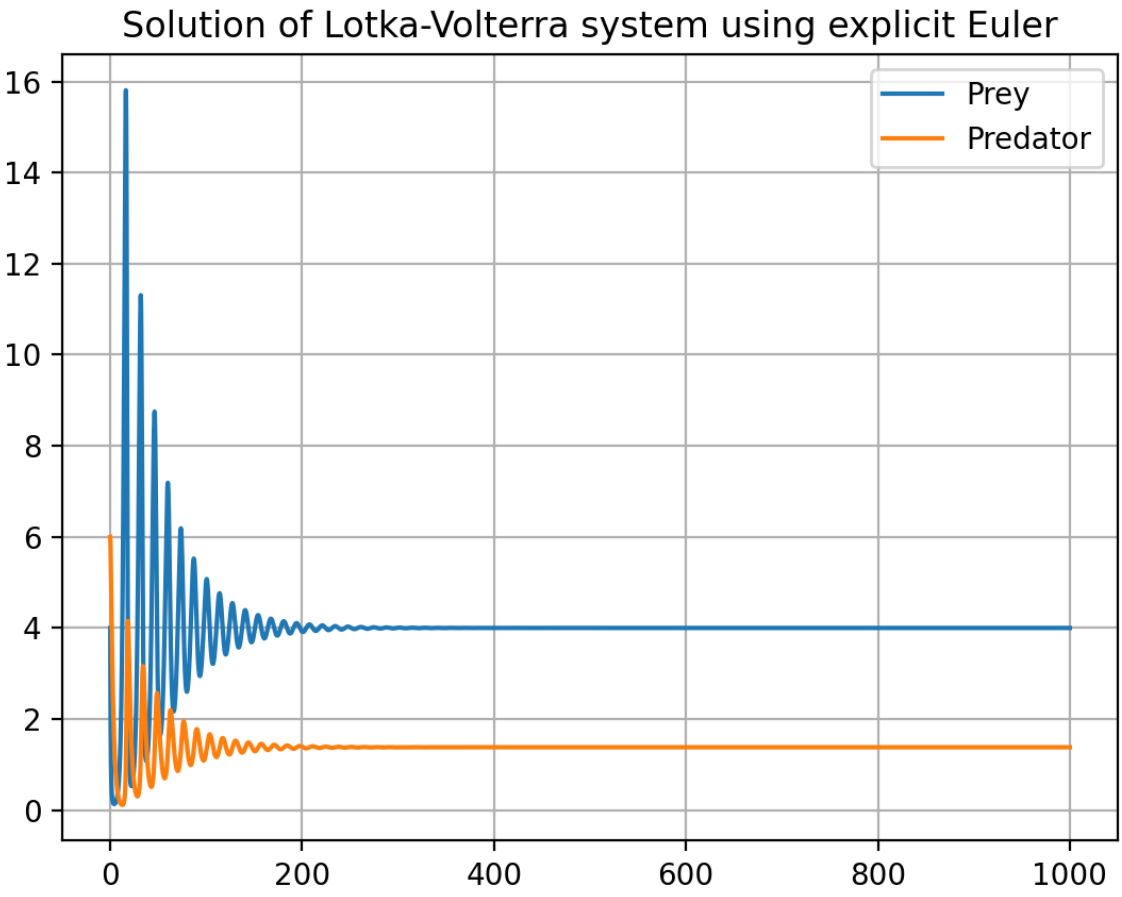
for duration t=30



for duration t=100

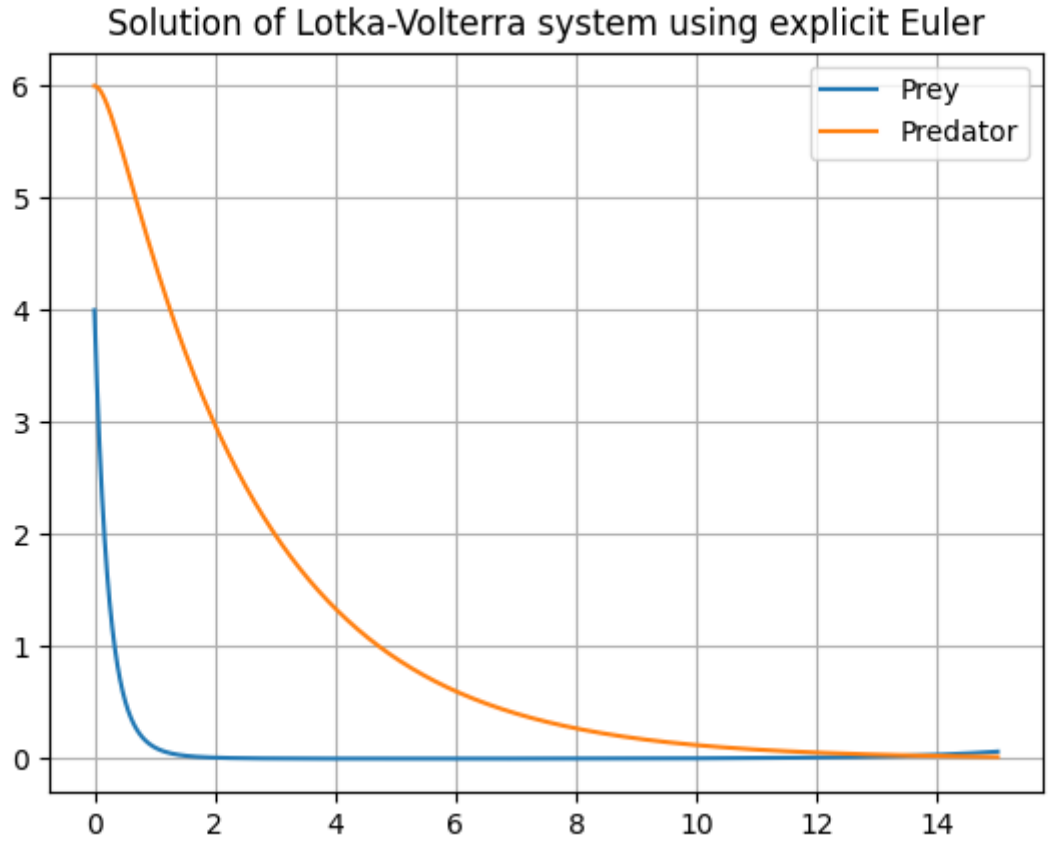


```
for duration t=1000
```

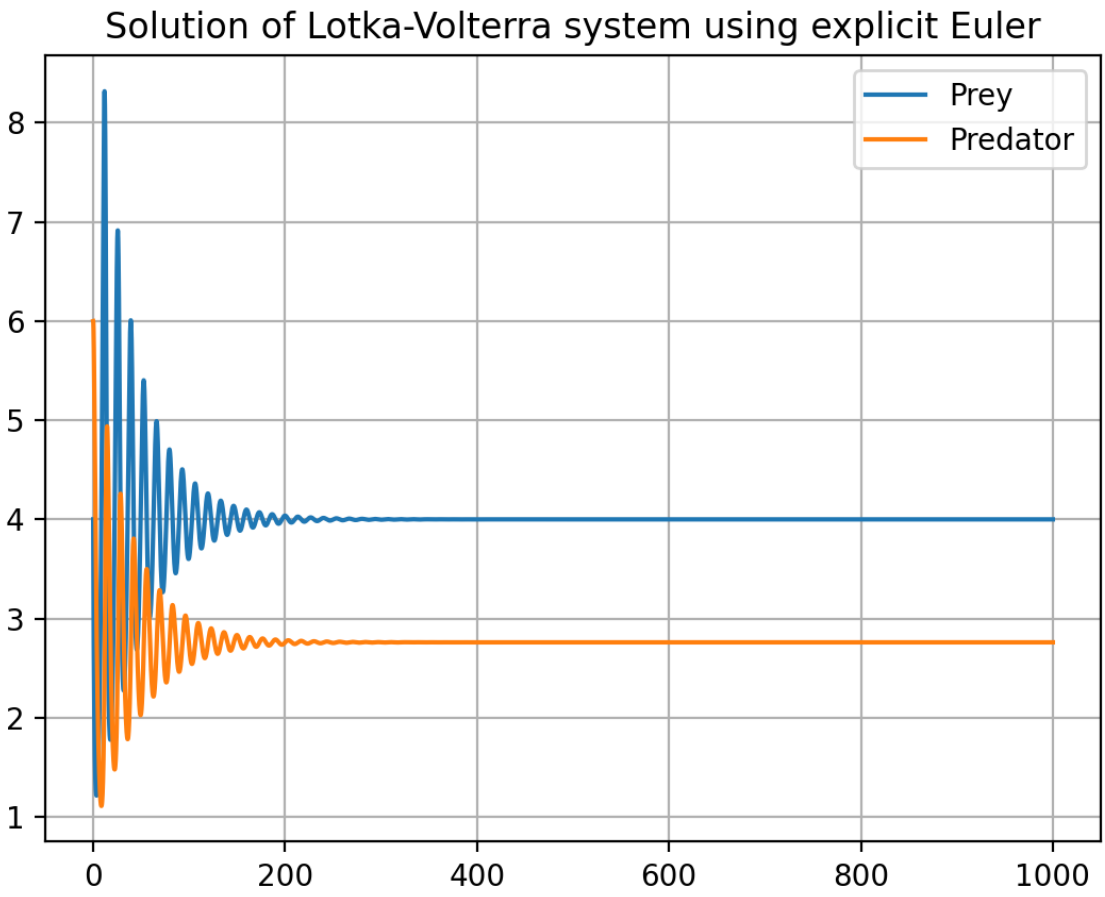


For differnet alphas

For an alpha of valuue 0.8, the prey dies very quickly



For an alpha of valuue 0.2, the predators's final population increases


Solution of Lotka-Volterra system using explicit Euler
Prey
Predator
8
7
6
5
4
3
2
1
0
200
400
600
800
1000