PSO Algorithm- finding out the best parameters and also providing the convergence plot
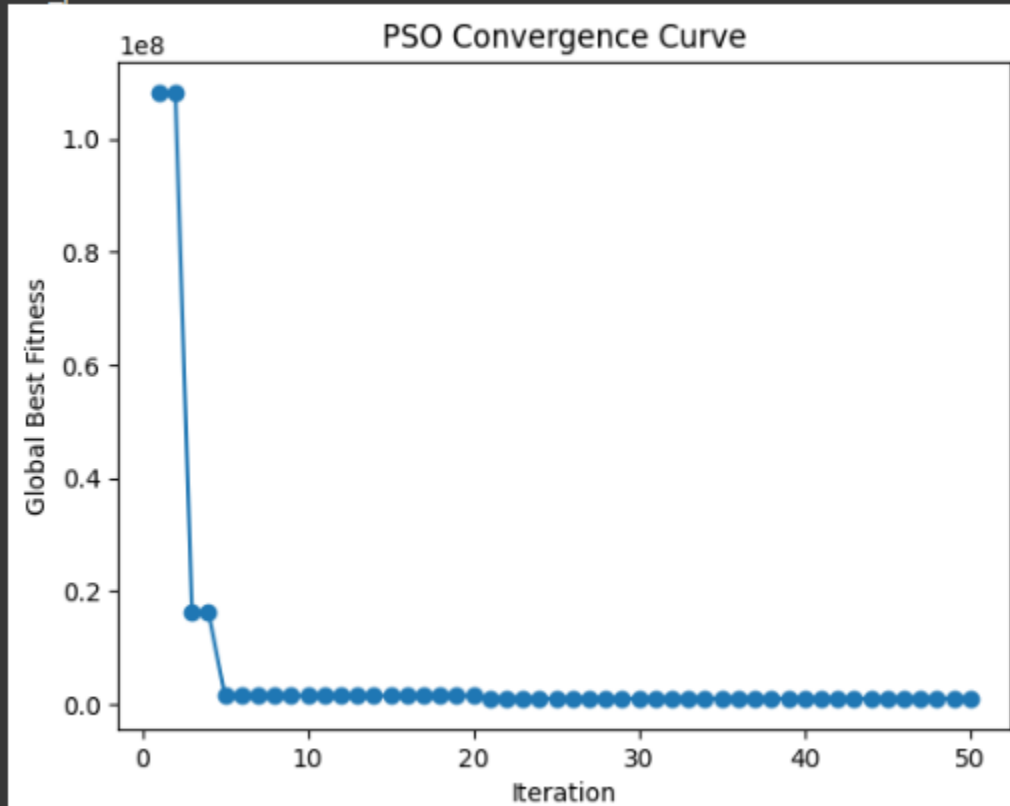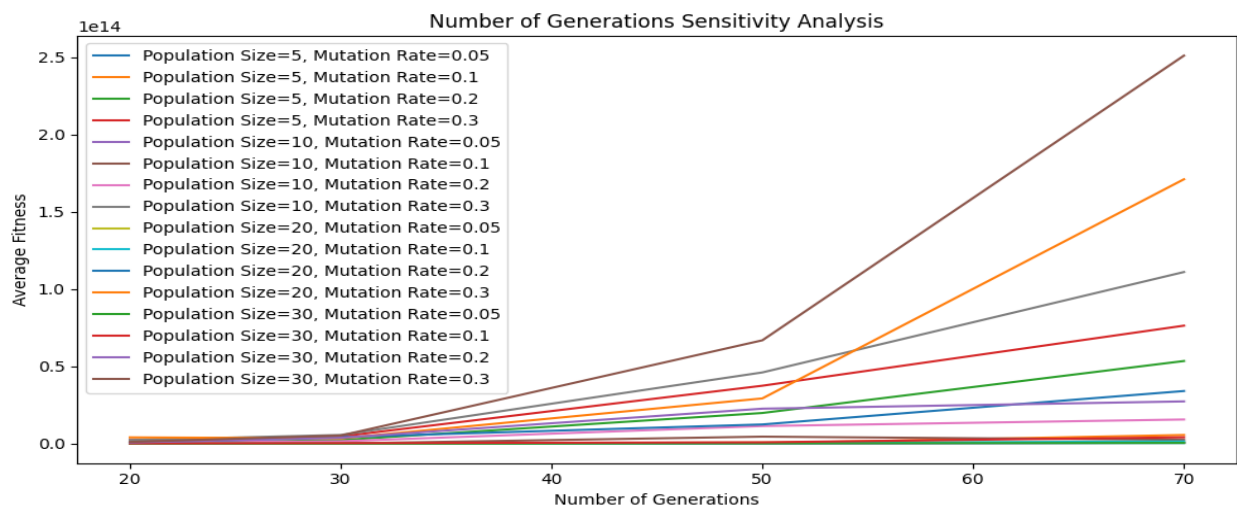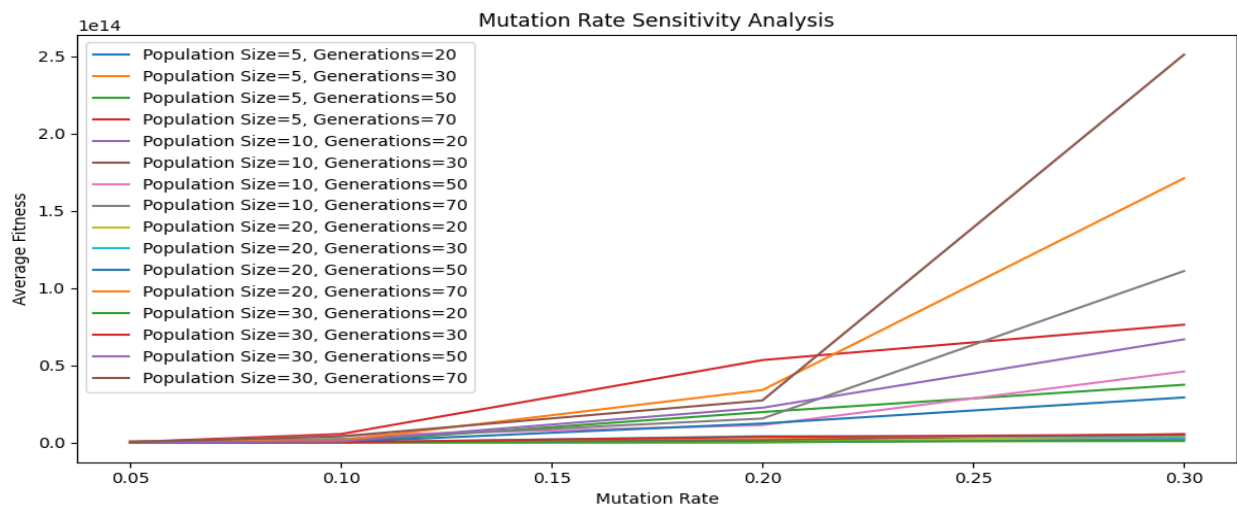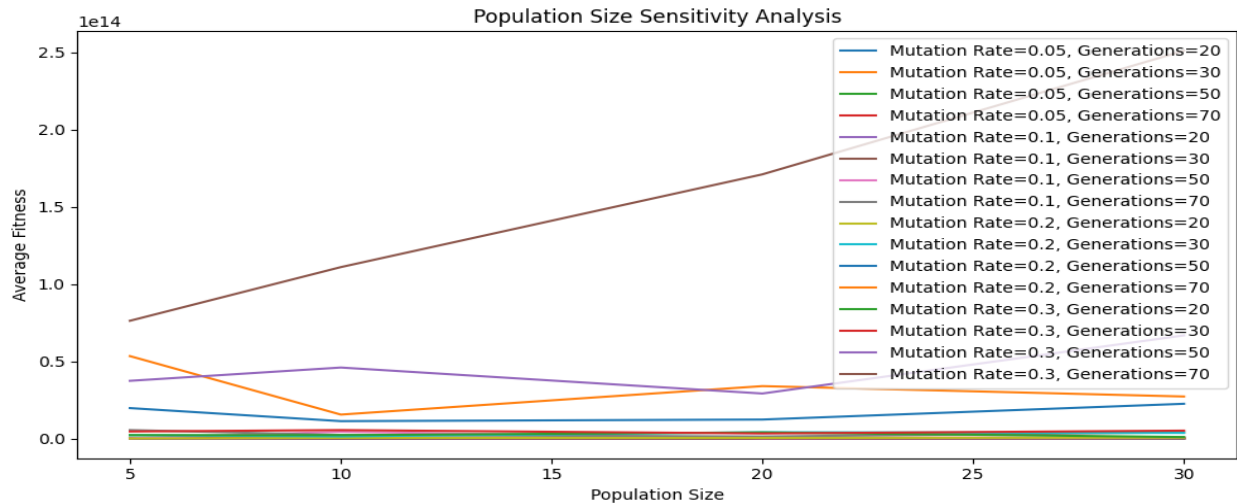


```
Best Parameters:
c1: 1.0
c2: 1.5
w: 0.5
num_particles: 20
```

PSO Convergence Curve

1e8

Global Best Fitness

Iteration

```
Final Fitness Value: 2.8598303557579348
```
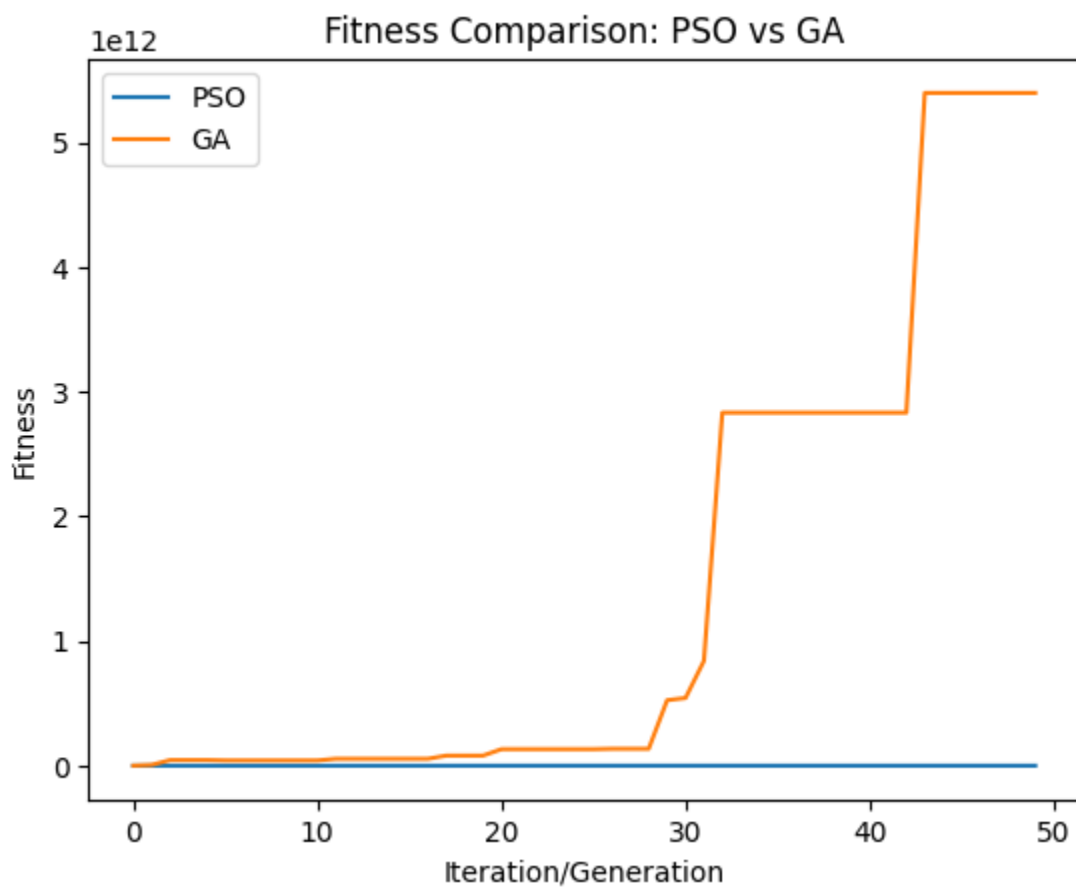
GA Algorithm for calculating the best parameters and plots for mutation rate population with fitness

BEST PARAMETERS OF GA

```
Best Parameters:
Population Size: 10
Mutation Rate: 0.05
Number of Generations: 30
Average Fitness: 5978514363.827158
```

Comparison between PSO and GA using fitness comparison plots

Comparison between PSO and GA with convergence and Diversity plots