```
USN:1BM22CS061 NAME:AYMAN AMJAD

Iteration 1/10, Best Value: 10.735326769276021

Iteration 2/10, Best Value: 4.9368744406064184

Iteration 3/10, Best Value: 4.9368744406064184

Iteration 4/10, Best Value: 4.9368744406064184

Iteration 5/10, Best Value: 4.580611047002948

Iteration 6/10, Best Value: 4.580611047002948

Iteration 7/10, Best Value: 2.771641600349575

Iteration 8/10, Best Value: 2.771641600349575

Iteration 9/10, Best Value: 2.771641600349575

Iteration 10/10, Best Value: 2.5614805985976865

Best position found by PSO: [-1.04880494 0.99457023]

Best value (minimized Rastrigin function): 2.5614805985976865
```