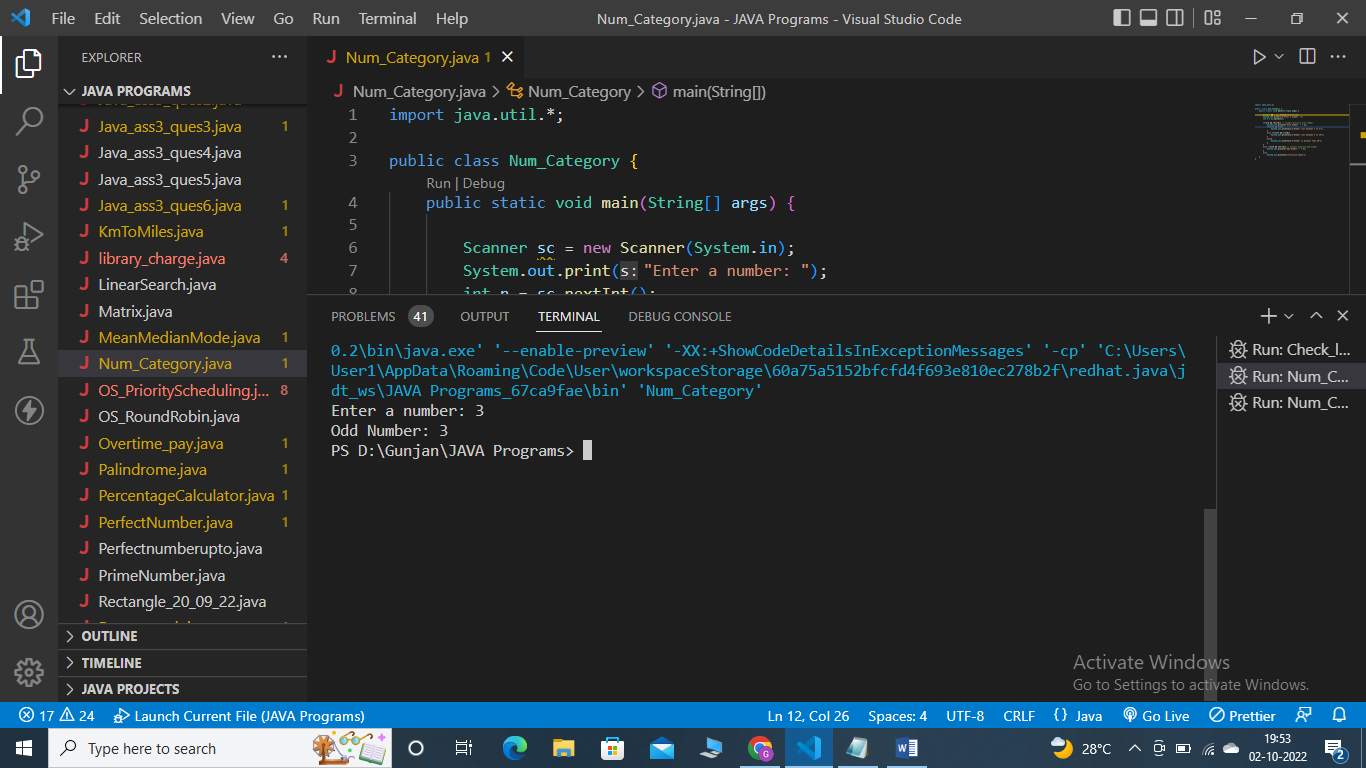
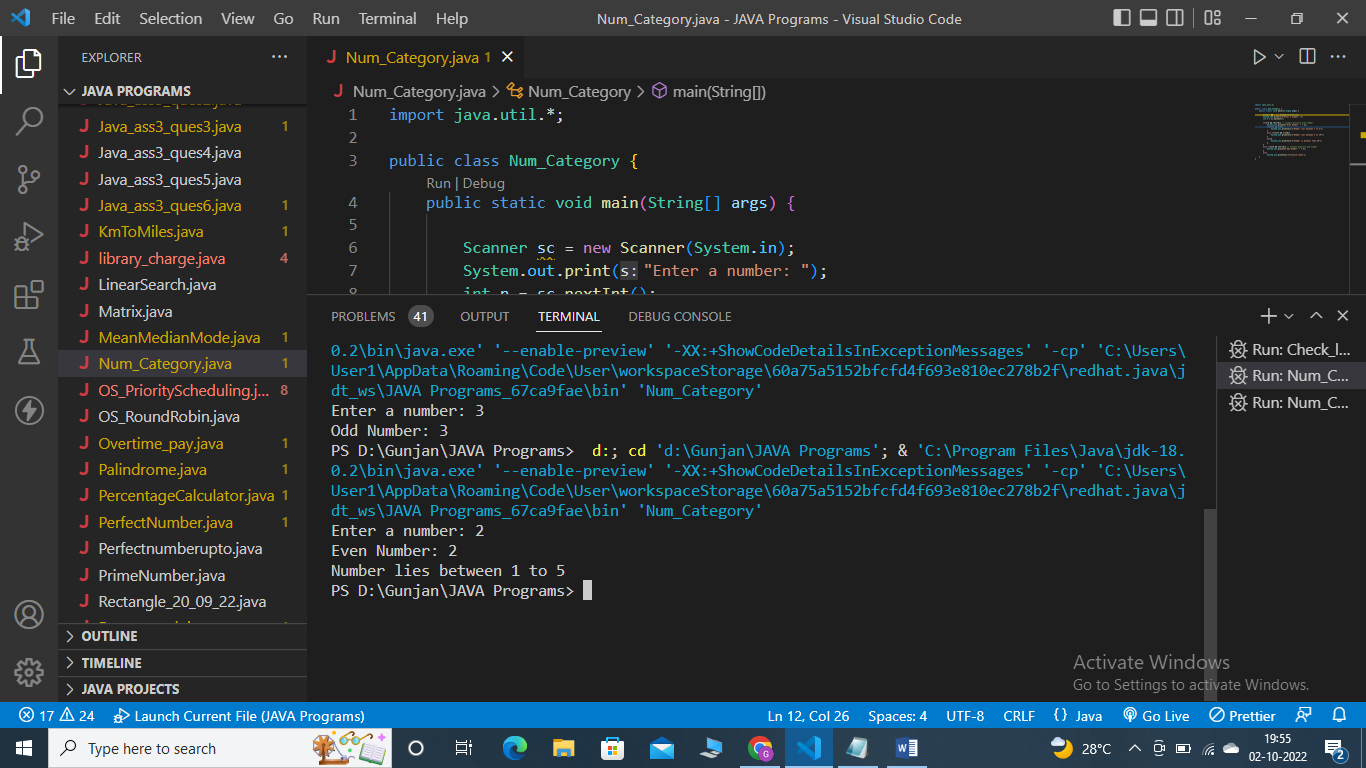
**OUTPUT**

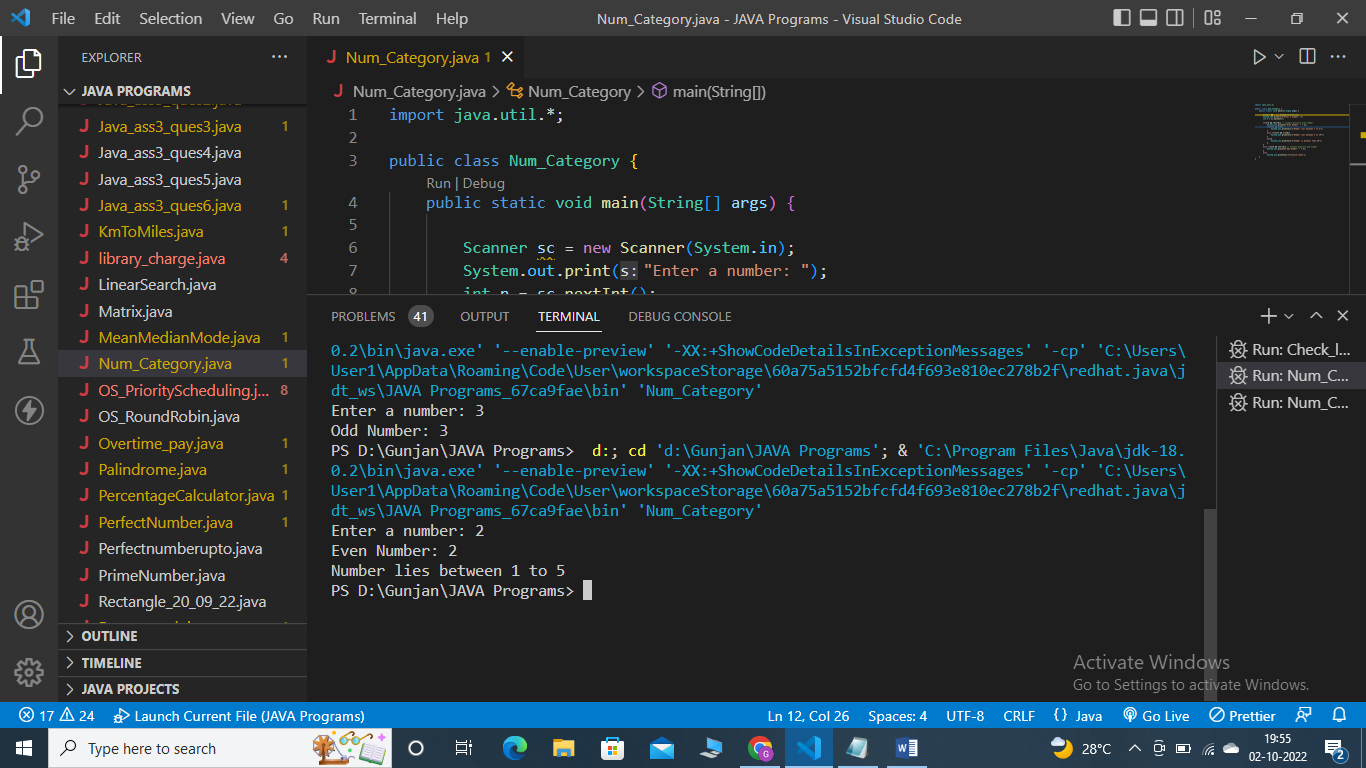
Case 1: n = 3



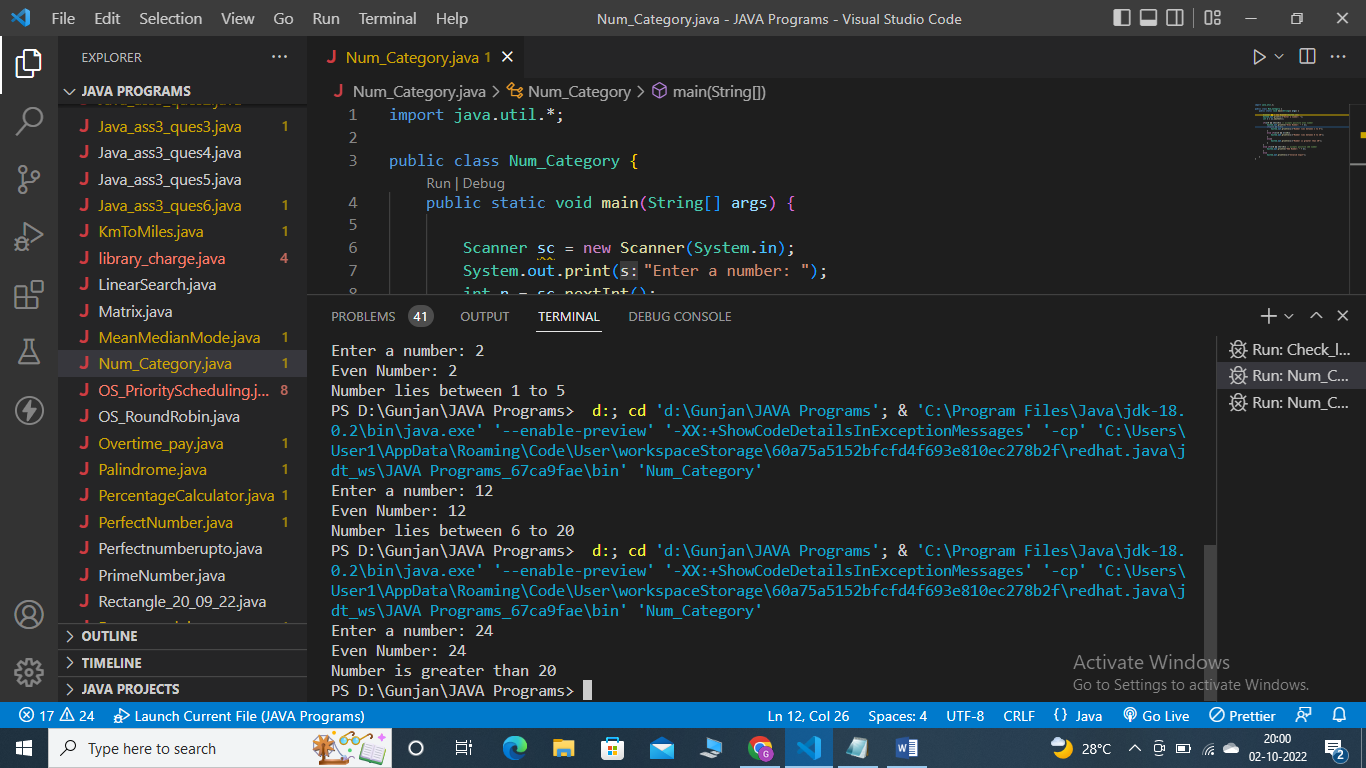
Case 2: n = 2



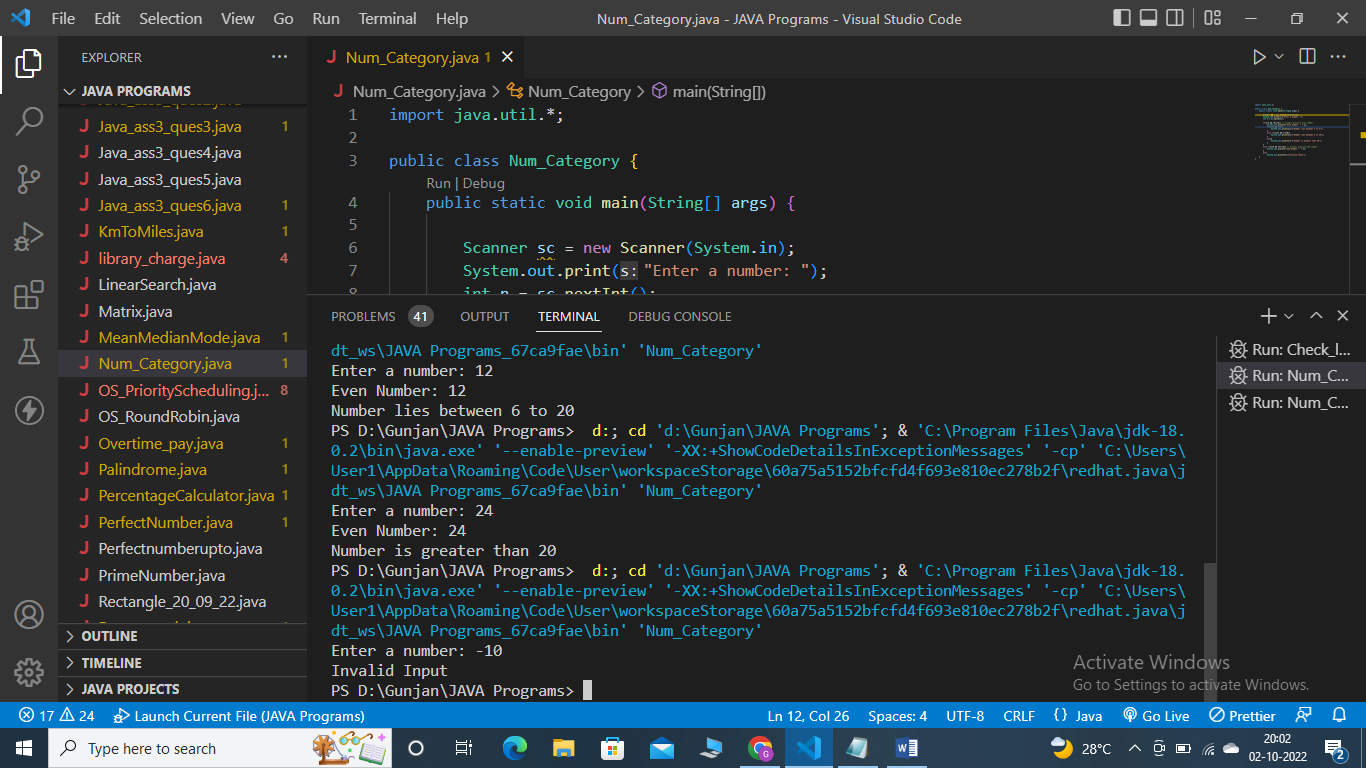
Case 3: n = 12



Case 4: n = 24



Case 5: n = -10



Case 6: n = 0

