```
In [1]: sc
Out[1]: SparkContext
       Spark UI
       Version
                       v4.0.0
                       local[*]
       Master
       AppName
                       PySparkShell
        Perform simple data transformation like filtering even
        numbers from a given list using PySpark RDD
In [3]: # from pyspark import SparkContext
        import random
        # Step 1: Initialize SparkContext
        # sc = SparkContext("local", "EvenNumberFilter")
In [4]: # Step 2: Generate 100 random integers between 1 and 1000
        random_numbers = [random.randint(1, 1000) for _ in range(100)]
        print("Original List:")
        print(random_numbers)
       Original List:
       [143, 686, 654, 592, 210, 355, 87, 440, 252, 747, 654, 397, 406, 884, 106, 360, 5
       15, 169, 804, 163, 581, 518, 351, 534, 530, 683, 277, 33, 335, 592, 579, 9, 410,
       81, 986, 76, 191, 172, 764, 974, 384, 884, 708, 120, 483, 654, 524, 506, 6, 367,
       305, 973, 70, 780, 257, 761, 582, 529, 802, 19, 848, 690, 156, 653, 211, 171, 72
       0, 322, 763, 249, 941, 665, 153, 683, 352, 309, 80, 256, 626, 851, 57, 689, 366,
       877, 169, 504, 607, 938, 982, 242, 618, 315, 704, 550, 465, 103, 301, 323, 738, 6
       10]
In [5]: # Step 3: Parallelize the list into an RDD
        numbers_rdd = sc.parallelize(random_numbers)
In [6]: # Step 4: Filter only even numbers
        even_numbers_rdd = numbers_rdd.filter(lambda x: x % 2 == 0)
In [7]: # Step 5: Collect results
        even_numbers = even_numbers_rdd.collect()
        print("\nEven Numbers:")
        print(even_numbers)
       Even Numbers:
       [686, 654, 592, 210, 440, 252, 654, 406, 884, 106, 360, 804, 518, 534, 530, 592,
       410, 986, 76, 172, 764, 974, 384, 884, 708, 120, 654, 524, 506, 6, 70, 780, 582,
       802, 848, 690, 156, 720, 322, 352, 80, 256, 626, 366, 504, 938, 982, 242, 618, 70
       4, 550, 738, 610]
In [8]: # Stop SparkContext
```

sc.stop()