CP1370 Lab 2 John-Michael Woodrow 1.

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| Python [] | Pyth
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2.

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Immoreography

rdd = sc.parallelize((1, 2, 3, 4, 5, 6))

# Filter: Ecop only even numbers
filtered_rdd = rdd.filter(lambda sr x % 2 = 0)
print(filtered_rdd.take(5))

# Maps Nultiply such number by 2
mapped_rdd = rdd.map(lambda xr x * 2)
print(mapped_rdd.take(5))

# Paps Nultiply such number by 2
mapped_rdd = rdd.map(lambda xr x * 2)
print(mapped_rdd.take(1))

# Falsings Create multiple cuttouts per legant
flatmapped_rdd.take(1))

# Takes Get the first 3 elements
print(rdd.take(3))

# Collect: Get all elements
print(rdd.take(3))

# Robusers thm all elements
tatal = rdd.reduce(lambda a, b: a + b)
print(total)

# (12) Spark lobs

[2, 4, 6]
[2, 4, 6]
[2, 4, 6]
[2, 4, 6]
[1, 2, 3]
[1, 2, 3, 4, 5, 6]
[1, 2, 5]
[1, 2, 5, 6, 5]
[1, 2, 5]
[1, 2, 5]
[1, 2, 5]
[1, 2, 5]
[1, 2, 5]
```

3.

```
### Python C2 :

### Filter out stocks with an opening value of 50
#filtereddd = validdd.filter(lambda line: flost(line.split("\t")[3]) > 0)

### Find the stock with the highest trading values on Nov 27, 2009

### nov27mdd = filteredddd.filter(lambda line: line.split("\t")[2] == "2009-11-27")

### find the stock with the highest trading values on Nov 27, 2009

### nov27mdd = filteredddd.filter(lambda line: line.split("\t")[2] == "2009-11-27")

### print("No data found for Nov 27, 2009; highestValueseStock)

### print("Stock with highest values on Nov 27, 2009; highestValueseStock)

### Ind the stock with the highest earnings on Dec 8, 2009

### decRdd = filteredddd.filter(lambda line: line.split("\t")[2] == "2009-12-08")

### if desRdd interpty():

### print("No data found for Dec 8, 2009; highestValueseStock)

### print("Stock with highest earnings on Dec 8, 2009; highestValueseStock)

### ind the stock with highest earnings on Dec 8, 2009; highestValueseStock)

### ind the stock with highest earnings on Dec 8, 2009; highestValueseStock)

### ind the stock with highest earnings on Dec 8, 2009; highestValueseStock with highest earnings on Dec 8, 2009; highestValueseStock with highest earnings on Dec 8, 2009; NSE (NK 2009-11-27 23.82 24.49 23.50 24.17 10631100 24.10

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### ind the stock with highest earnings on Dec 8, 2009; NSE (NK 2009-
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