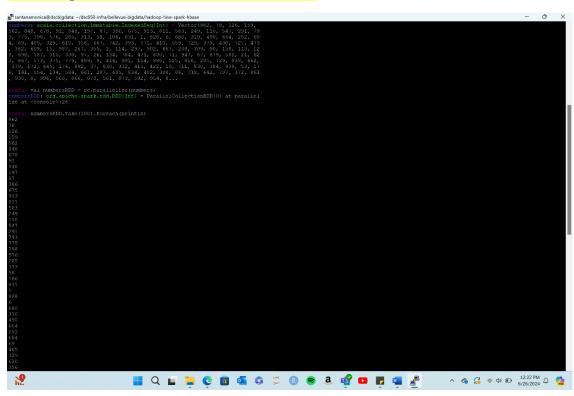
### Monica Santana – Week 4 Exercise

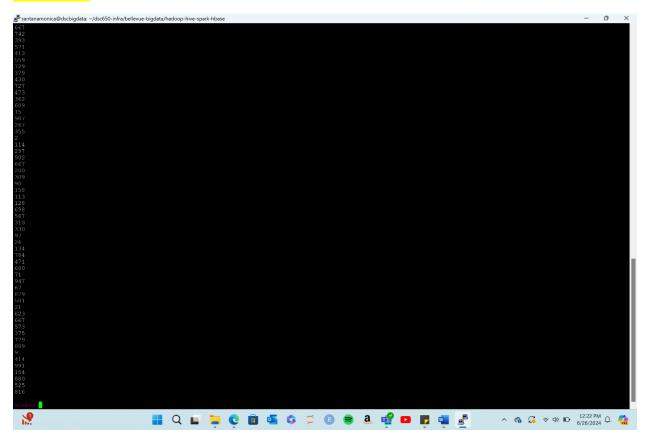
## SparkPi Output

```
# station of the control of the cont
```

## First 100 generated random numbers – First half



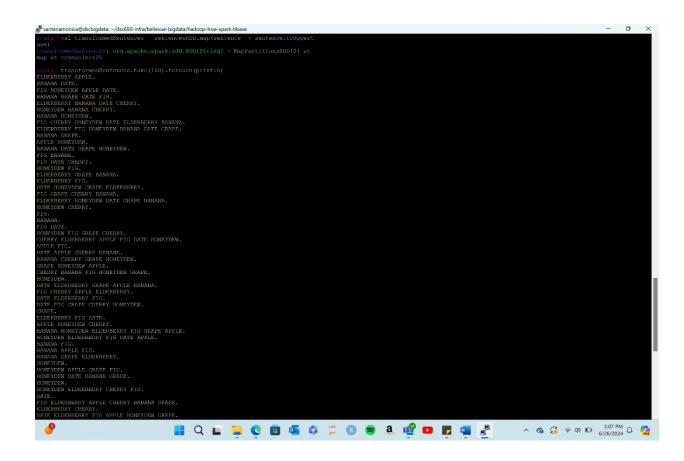
# Second half



Custom transformations: 1st one is changing the words to uppercase

### **CODE:**

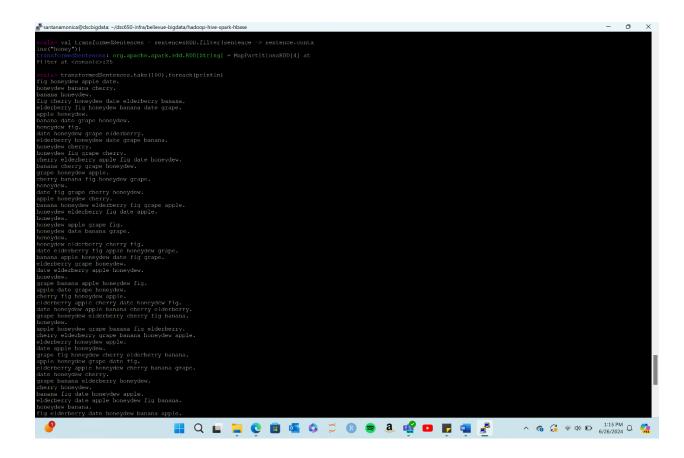
val transformedSentences = sentencesRDD.map(sentence => sentence.toUpperCase)
transformedSentences.take(100).foreach(println)



2<sup>nd</sup> transformation: Using the filter() and contains() to filter out only the words that have honey in them

#### **CODE:**

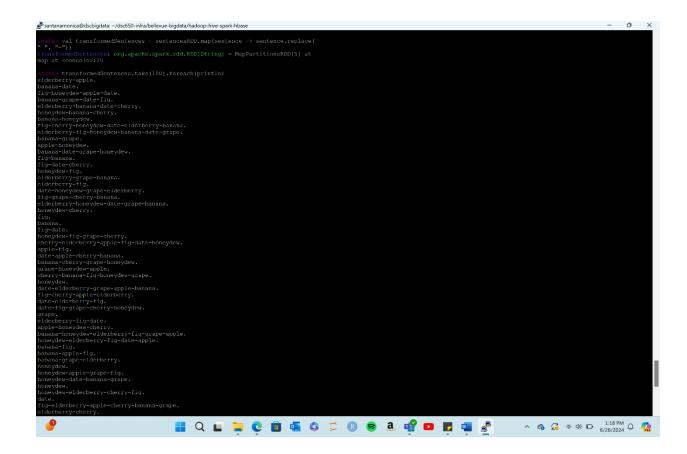
 $\label{eq:val} \textbf{val}\ transformedSentences} = sentencesRDD.filter(sentence => sentence.contains("honey")) \\ transformedSentences.take(100).foreach(println)$ 



3<sup>rd</sup> transformation: Using map() and the replace() to change the spaces to hyphens in the words

### **CODE:**

val transformedSentences = sentencesRDD.map(sentence => sentence.replace("", "-"))
transformedSentences.take(100).foreach(println)



4th transformation: Using filter() and startsWith() to filter out the words only starting with date and prints a true or false. True if the word starts with date and false if it doesn't

### **CODE:**

 $\begin{tabular}{ll} val\ transformedSentences = sentencesRDD.filter(sentence => sentence.startsWith("date")) \\ transformedSentences.take(100).foreach(println) \\ \end{tabular}$ 

