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COEN 278
WEB PROGRAMMIN II
ASSIGNMENT 1

1) To find the word frequencies:

Filename : word_frequency.rb

Output : ruby word_frequency.rb

To display the frequency of all words in the sentence

```
----------MENU----------
A. Find frequencies of all words
B. Find frequency of particular word
-----------------------
Please enter your choice:A
Word: a — Frequency: 7
Word: and — Frequency: 3
Word: at — Frequency: 1
Word: can — Frequency: 2
Word: clam — Frequency: 1
Word: clean — Frequency: 1
Word: could — Frequency: 1
Word: cram — Frequency: 1
Word: cream — Frequency: 1
Word: denise — Frequency: 3
Word: famous — Frequency: 1
Word: feed — Frequency: 1
Word: few — Frequency: 1
Word: fleas — Frequency: 2
Word: fleece — Frequency: 1
Word: freeze — Frequency: 1
Word: here — Frequency: 1
Word: how — Frequency: 1
Word: i — Frequency: 1
Word: if — Frequency: 1
Word: in — Frequency: 2
Word: is — Frequency: 1
Word: least — Frequency: 1
Word: list — Frequency: 1
Word: of — Frequency: 5
Word: peck — Frequency: 4
Word: peppers — Frequency: 4
Word: peter — Frequency: 4
Word: picked — Frequency: 4
Word: pickled — Frequency: 4
Word: piper — Frequency: 4
Word: s — Frequency: 1
Word: saw — Frequency: 1
Word: sees — Frequency: 2
Word: she — Frequency: 4
Word: shine — Frequency: 1
Word: shines — Frequency: 2
Word: shoe — Frequency: 1
Word: shop — Frequency: 1
Word: sits — Frequency: 2
Word: sitting — Frequency: 1
Word: sneeze — Frequency: 1
Word: susie — Frequency: 1
Word: the — Frequency: 4
Word: tongue — Frequency: 1
Word: twisters — Frequency: 1
Word: where — Frequency: 3
```

To display the frequency of a particular word

```
----------MENU----------
A. Find frequencies of all words
B. Find frequency of particular word
-----------------------
Please enter your choice:B
Enter word:
peter
Frequency: 4
```

To display the frequency of a particular word which is not present
```
-----------MENU-----------
A. Find frequencies of all words
B. Find frequency of particular word
--------------------------
Please enter your choice:B
Enter word:
hello
Frequency: 0
```

Frequency of empty input
```
-----------MENU-----------
A. Find frequencies of all words
B. Find frequency of particular word
--------------------------
Please enter your choice:B
Enter word:

Frequency: 0
```

2) To query student array:

Filename : student_array.rb

Output : ruby student_array.rb

To run default queries specified
```
-----------MENU-----------
A. Run Default Queries
B. Run Custom Query
-----------------------
Please enter your choice:A
Query 1: Running query to display all the records
Match found:
1) First Name: John, Last Name: LastnameJohn, Phone:123456789
2) First Name: Ken, Last Name: Lastnameken, Phone:456734244
3) First Name: Bob, Last Name: LastnameJohn, Phone:456734245
4) First Name: Marisa, Last Name: lastnamemarisa, Phone:443234567
5) First Name: Ken, Last Name: Kenlastname, Phone:456734244
6) First Name: , Last Name: Kenlastname, Phone:456734245

Query 2: Running query with First Name = Ken
Match found:
1) First Name: Ken, Last Name: Lastnameken, Phone:456734244
2) First Name: Ken, Last Name: Kenlastname, Phone:456734244

Query 3: Running query with Last Name = LastnameJohn
Match found:
1) First Name: John, Last Name: LastnameJohn, Phone:123456789
2) First Name: Bob, Last Name: LastnameJohn, Phone:456734245

Query 4: Running query with Phone = 456734244
Match found:
1) First Name: Ken, Last Name: Lastnameken, Phone:456734244
2) First Name: Ken, Last Name: Kenlastname, Phone:456734244

Query 5: Running query with First Name = bob and Last Name = LastnameJohn
Match found:
1) First Name: Bob, Last Name: LastnameJohn, Phone:456734245

Query 6: Running query with First Name = Ken and Last Name = LastnameJohn
No match found
```

To run custom queries which results in matching records

```
----------MENU----------
A. Run Default Queries
B. Run Custom Query
-----------------------
Please enter your choice:B
Enter First Name: ken
Enter Last Name:
Enter phone:
Match found:
1) First Name: Ken, Last Name: Lastnameken, Phone:456734244
2) First Name: Ken, Last Name: Kenlastname, Phone:456734244
```

To run custom queries which does not match any records

```
----------MENU----------
A. Run Default Queries
B. Run Custom Query
-----------------------
Please enter your choice:B
Enter First Name: bob
Enter Last Name: name
Enter phone:
No match found
```