Script problems 2

```
Generate squares of 1 to 30 in a squares.txt file in the below pattern
1=1,2=4,3=9,....,28=784,29=841,30=900
read the squares.txt file to generate squares.formatted file in the below pattern
Square of 1 is 1
Square of 30 is 900
#!/bin/bash
echo "Generating 1 to 30 squares and storing in a txt file"
SQUARES="1=1"
for((i=2;i<=30;++i))
do
      SQUARES+=",${i}=$((i*i))"
done
echo "$SQUARES" > "squares.txt"
if [[ ${?} -eq 0 ]]
then
      echo "File named squares.txt generated successfully"
else
      echo "File named squares.txt is not generated successfully"
      echo "Generation failed with exit code ${?}"
      exit ${?}
fi
READ FROM FILE=$(cat squares.txt)
IFS=','
SQS=($READ_FROM_FILE)
IFS='='
for SQ in "${SQS[@]}"
do
      TEMP=($SQ)
      echo "Square of ${TEMP[0]} is ${TEMP[1]}"
done
exit "0"
Before running the script, No squares.txt file is present in Scripts folder
franklinedward@Franklins-MacBook-Pro-2 Scripts % Is
Script Outputs - 1.pdf
                                fiboacci.sh
                                                          script test case
evidence.pdf
create_and_read_square.sh
                                palindrome.sh
                                                                word_count.sh
different_files
                                prime.sh
```

Output

franklinedward@Franklins-MacBook-Pro-2 Scripts % ./create_and_read_square.sh

Generating 1 to 30 squares and storing in a txt file

File named squares.txt generated successfully

Squares from 1 to 30 read from squares.txt

Square of 1 is 1

Square of 2 is 4

Square of 3 is 9

Square of 4 is 16

Square of 5 is 25

Square of 6 is 36

Square of 7 is 49

Square of 8 is 64

Square of 9 is 81

Square of 10 is 100

Square of 11 is 121

Square of 12 is 144

Square of 13 is 169

Square of 14 is 196

Square of 15 is 225

Square of 16 is 256

Square of 17 is 289

Square of 18 is 324

Square of 19 is 361

Square of 20 is 400

Square of 21 is 441

Square of 22 is 484

Square of 23 is 529

Square of 24 is 576

Square of 25 is 625

Square of 26 is 676

Square of 27 is 729

Square of 28 is 784

Square of 29 is 841 Square of 30 is 900

franklinedward@Franklins-MacBook-Pro-2 Scripts % Is

Script Outputs - 1.pdf fiboacci.sh script test case

evidence.pdf

create_and_read_square.sh palindrome.sh <u>squares.txt</u> different_files prime.sh word_count.sh

franklinedward@Franklins-MacBook-Pro-2 Scripts %

Write a shell script which reads filename as argument & prints below outputs

- Top 3 repeating words from the file with its counts
- Top 3 longest lines length has to be printed

```
#!/bin/bash
while:
do
      read -p "Enter the file name to get top 3 repeatative words and 3 longest line "
FILE
      if [[ -f "$FILE" ]]
      then
             FILE_CONTENT=$(cat $FILE)
             break:
      else
             echo "File doesn't exists on the given path"
      fi
done
echo "Top 3 repeatative words are"
cat $FILE | tr '[:upper:]' '[:lower:]' | sed 's/[^[:alpha:][:space:]]//g' | tr ' ' '\n' | sort | uniq -c |
sort -nr | head -3
echo "Top 3 longest Lines"
cat $FILE | awk '{ print length, $0 }' | sort -nr | head -3
For the longest line, the code consider the length of the line till we press enter. It doesn't
consider "." Is where the line ends...
NO1:
Input: /different_files/file1.txt
Output:
Top 3 repeatative words are
 16 the
 12 and
 8 a
Top 3 longest Lines
139 From that day on, the Smiths made sure to always keep a closer eye on the
dogs, but they wouldn't trade the love and laughter for anything.
132 John and Jane looked at each other and smiled, grateful for the love and
laughter of their family, including their furry companions.
113 The mother, Jane, was a stay-at-home mom who took care of their two children,
Jack and Jill, and their five dogs.
NO2:
```

Input:. /different files/file2.txt

Output:

Top 3 repeatative words are

14 and

12 the 9 they

Top 3 longest Lines

142 The family was sad to see him go, but they knew they would always be connected through their love for each other and their three beloved dogs.

136 Michael couldn't believe how much they had grown, Bella, Max and Rocky showered him with love and licks, which Michael happily returned.

123 They also had three dogs, a Golden Retriever named Bella, a Labrador Retriever named Max and a German Shepherd named Rocky.

NO3:

Input: ./different_files/file3.txt

Output:

Top 3 repeatative words are

13 and

12 they

12 a

Top 3 longest Lines

123 They were grateful for the love and companionship he provided, and they knew that he was meant to be a part of their lives.

109 They were glad to have given a home to a lost puppy and Max was glad to have found a home with loving family.

95 Alex and Samantha knew that they had to help, so they brought the puppy home and cleaned it up.

NO4:

Input1: ./different_files/file4.txt
Input2: ./different_files/files4.txt

Output:

Enter the file_name to get top 3 repeatative words and 3 longest line ./

different files/file4.txt

File doesn't exists on the given path

Enter the file_name to get top 3 repeatative words and 3 longest line ./

different files/files4.txt

Top 3 repeatative words are

12 they

7 was

7 and

Top 3 longest Lines

137 They knew their life would never be the same, but they couldn't wait for all the adventures that lay ahead for them as a family of three.

84 They were overjoyed as they held their newborn son in their arms for the first time.

76 They couldn't believe how much love they had for their little bundle of joy.
