TEXT PROCESSING USING SHELLSCRIPT

Problem definition:

Text processing using shellscript, means using sed properties to process the data in horizontal manner.

About:

In this text processing we particulary used only sed command to process the data . We know that the awk command is most widely used in text processing very oftenly.

Recomended linux versions:

Mostly works in all the linux distributions., most preferbly version 14 and more than that. I used linux 17.4(ubuntu).

Input:

Given text to process the data is

25 27 50
35 37 75
75 78 80
99 88 76

Steps to do :

- Open the ubuntu terminal.(press alt+ctrl+t to open the terminal).

- Move to your project folder., in my case it is "project" folder.

- Create a shellscript using any texteditors like gedit, vi , cat , etc.., with the file extension ".sh" .

- and use the sed commands in it , like

```
sed 's/ /+/g' data | bc > data_total && head -1 data | sed
  's/[^ ]//g' | wc -c >  data_avg
```

which is used to add the data horizontally , and also to find the avg to the given data .

- Read the input text file data in to "n" variable.
  n=$(cat data_total)

- Read the avg file processed data into "q" variable.
  q=$(cat data_avg)

- For loop to read every line in data_total file and sends to data_percentage file.....

```
for i in `cat data_total`
  do
echo "`expr $i / $q`%"
done > data_percentage
```

- To allocate grades to file called data_percentage and strore it in output.....

```
awk '{if($1 >= 90)print $0",  A Grade"; else if($1 >= 70)print
  $0",  B Grade"; else if($1 <= 69)print $0",  C Grade"; else
  print$0",  D Grade" }' data_percentage > output
```

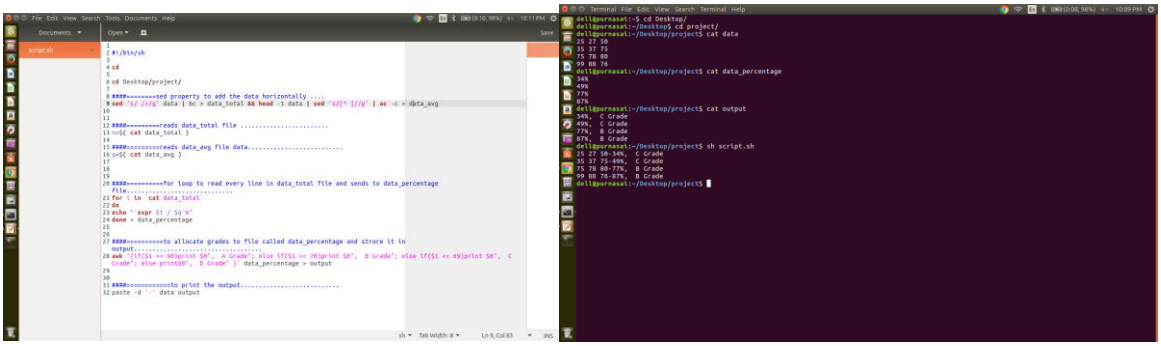
- To print the output.....

```
paste -d '-' data output
```

- save the script.sh file

- run the shellscript file in bash using the following command
  " $ sh script.sh"

Output:



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