# GOVT. ENGINEERING COLLEGE AJMER

## DEPARTMENT OF COMPUTER SCIENCE AND INFORMATION TECHNOLOGY



### GROUP PROJECT LINUX SHELL LAB I2 BATCH

GROUP No.: 1

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# Group Assignment-1 Linux Shell LAB I2 batch

```
root@goorm:~/demofolder(master)# ls
file1     question10digitsum.sh    question13months.sh      question3triange.sh  question6evenodd.sh    question9evensum.sh
file2     question11calculator.sh  question1findgreatest.sh question4check.sh     question7table.sh      te.txt
group.sh  question12days.sh        question2leapyear.sh     question5profit.sh    question8factorial.sh  test.sh
root@goorm:~/demofolder(master)# bash ./group.sh
##############  ECA Linux Shell Script Group Assignment  ##############
#####################  Script To Calculate Tokens  #####################

########  Tokens in given file  ########

#############   File  ################
int main()

{

  int a = 10 , b = 20 ;

  printf("sum is :%d", a + b);

  return 0 ;

}
################ End  #################

Total Tokens Present : 27
root@goorm:~/demofolder(master)# █
```

```
echo "##############  ECA Linux Shell Script Group Assignment  ##############"
echo "######################  Script To Calculate Tokens  #####################"
echo
echo "########  Tokens in given file  ########"
echo
echo "#############   File  ################"
cat file1
echo "############### End  ################"
#varc calculate
varc=$(egrep -o -i -w 'int|main|a|b|10|20|;|0|return|=|,|printf' file1 | wc -l)
#varp count number of '(' in given file
varp=$(grep -c '(' file1)
#varp2 count number of ')' in given file
varp2=$(grep -c ')' file1)
#varcp count number of '{' in given file
varcp=$(grep -c '{' file1)
#varcp2 count number of '}' in given file
varcp2=$(grep -c '}' file1)
#vardq count number of stings
vardq=$(grep -c '"' file1)
#varo count number of + operator
varo=$(grep -c '+' file1)

sum=$(($varc + $varp + $varp2 + $vardq +$varcp + $varcp2 + $varo))
echo
echo "Total Tokens Present : $sum"

~
~
~
~
~
~
~
~
~
"group.sh" 27L, 921C
```

## Logic :-

We are using grep and egrep command to find the pattern and count its occurrence in the given file.

The main difference between grep and egrep is that grep is a command that allows searching content according to the given regular expression and displaying the matching lines while egrep is a variant of grep that helps to search content by applying extended regular expressions to display the machining lines.

We have used options with grep to get optimized result

-w : Match whole word

-c : This prints only a count of the lines that match a pattern

-i : Ignores, case for matching

-o: Print only the matched parts of a matching line,
 with each such part on a separate output line.


The shell script code is also available at our GitHub account

https://github.com/sharmashubham23/token-calculate

# Thank You