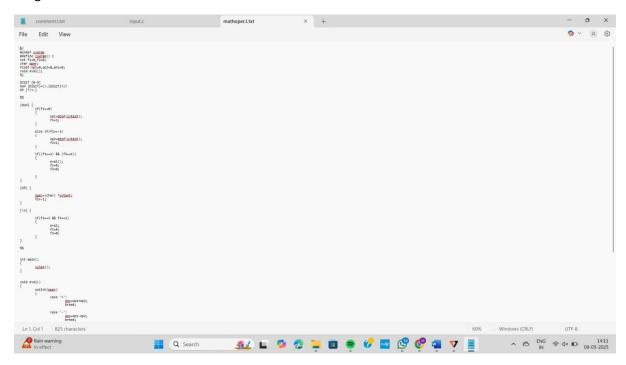
Name: ch.ishwarya reg no: 192372104

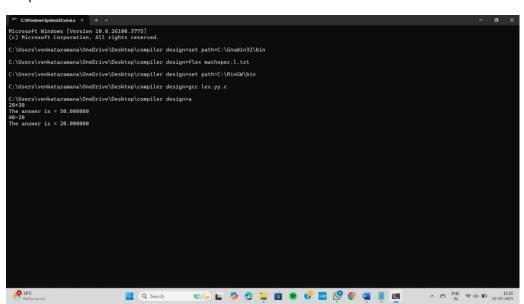
course: csa1409 - compiler design

1) Write a LEX program to implement basic mathematical operations.

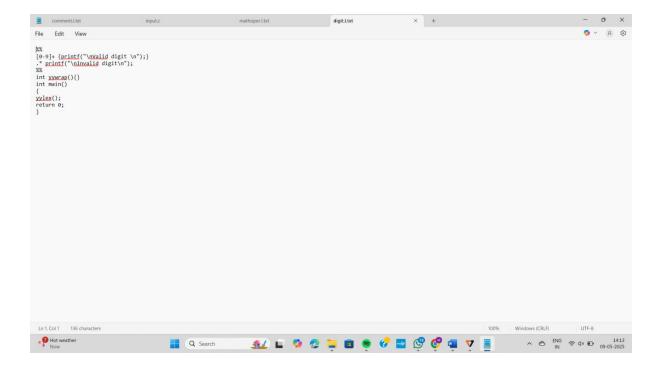
## Program:

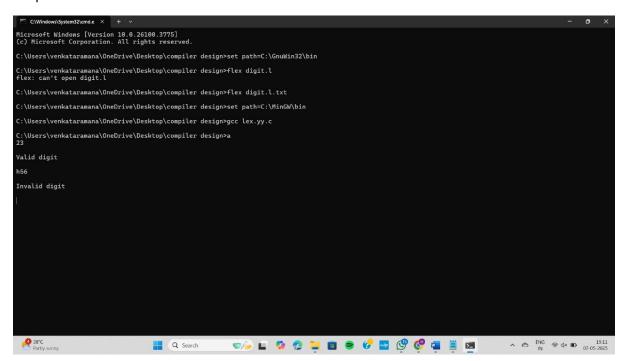


# Output:



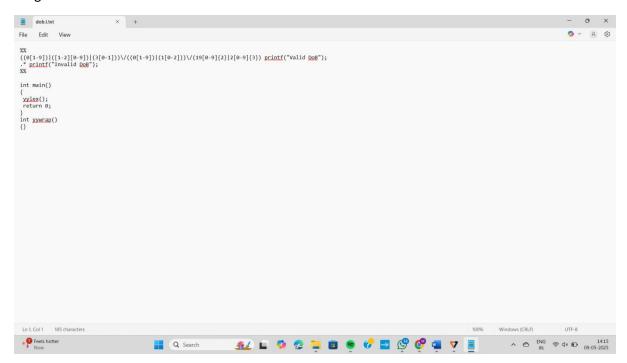
2) Write a LEX program to check whether the given input is digit or not.



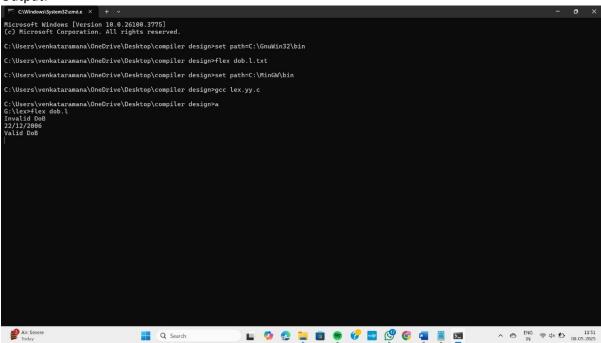


3) Write a LEX program to validate DOB of students.

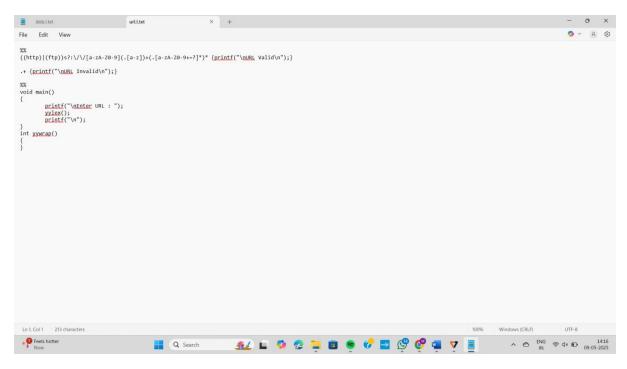
# Program:

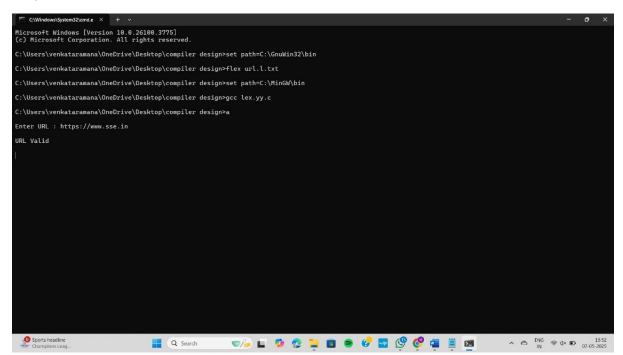


#### Output:

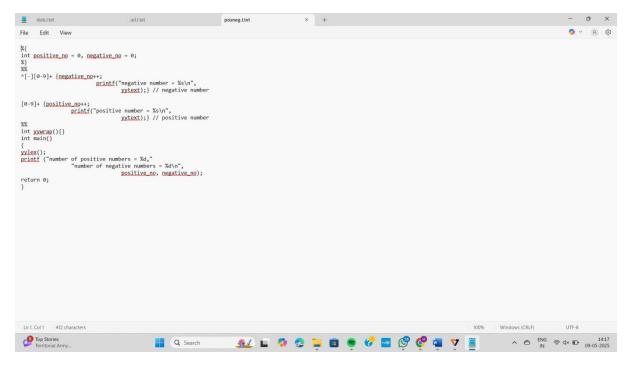


4) Write a LEX program to validate the URL.





5) Write a LEX program to identify and count positive and negative numbers.



```
Microsoft Windows [Version 10.0.26100.3775]
(c) Microsoft Corporation. All rights reserved.

C:\Users\venkataramana\0neDrive\Desktop\compiler design>set path=C:\GnuWin32\bin

C:\Users\venkataramana\0neDrive\Desktop\compiler design>set path=C:\MinGW\bin

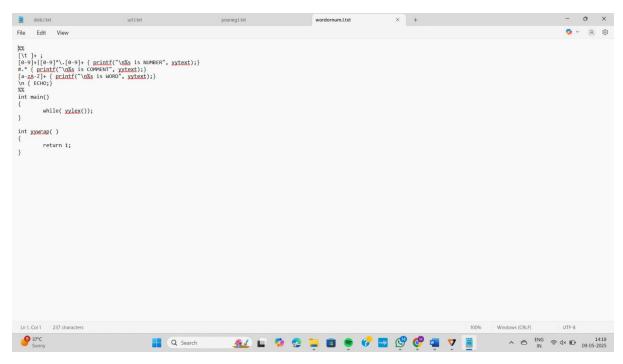
C:\Users\venkataramana\0neDrive\Desktop\compiler design>set path=C:\MinGW\bin

C:\Users\venkataramana\0neDrive\Desktop\compiler design>gc lex.yy.c

C:\Users\venkataramana\0neDrive\Desktop\compiler design>a
positive number = 20

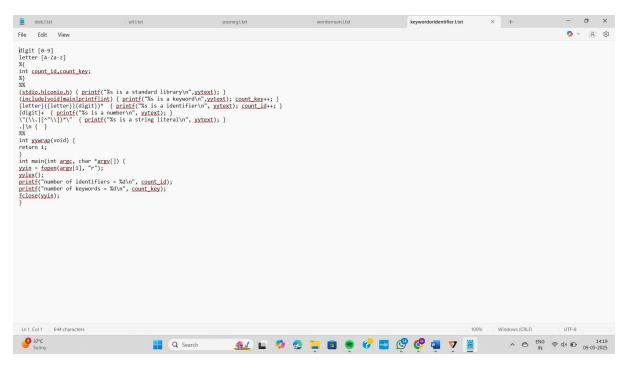
-21
negative number = -21
```

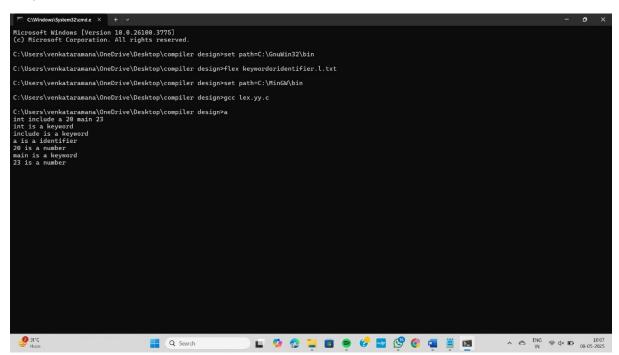
6) Write a LEX program to recognise numbers and words in a statement.



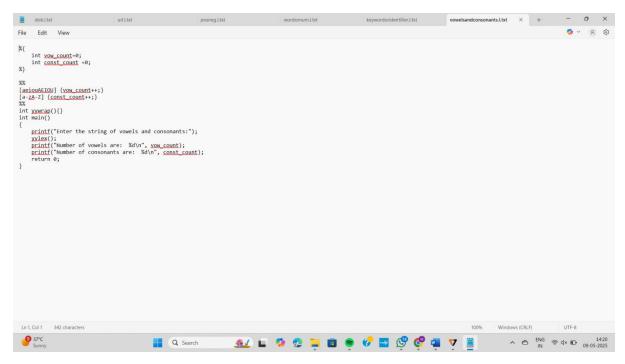
```
| Microsoft Windows (Version 19.8, 25108, 3775]
| C. Microsoft Corporation. All rights reserved.
| C. Microsoft Windows (Microsoft Corporation of Corporation of
```

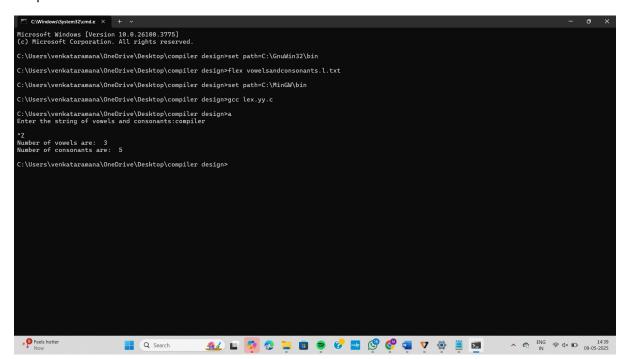
7) Write a LEX program to separate the keywords and identifiers.



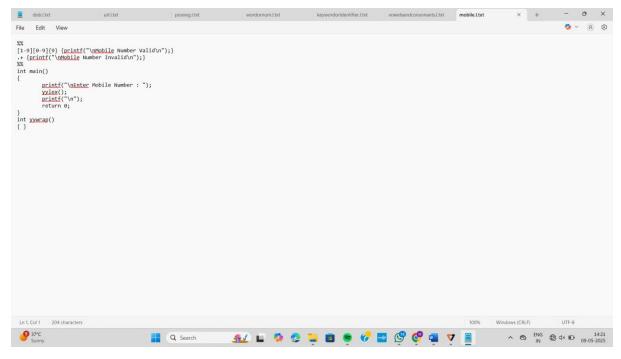


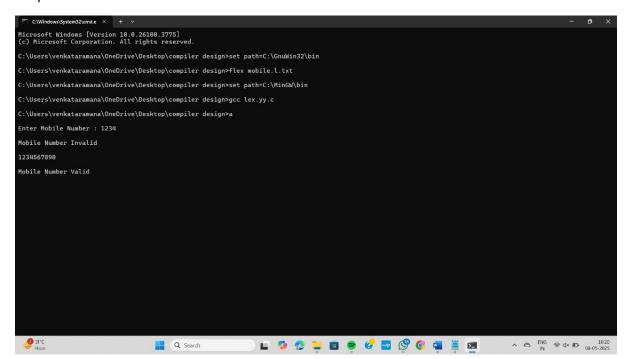
8) Write a LEX program to count the number of vowels in the given sentence.



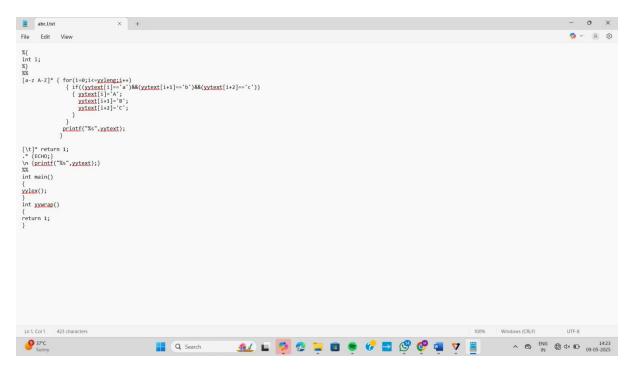


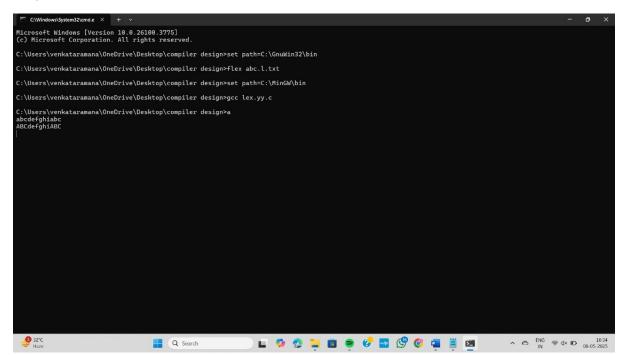
9) Implement a LEX program to check whether the mobile number is valid or not.



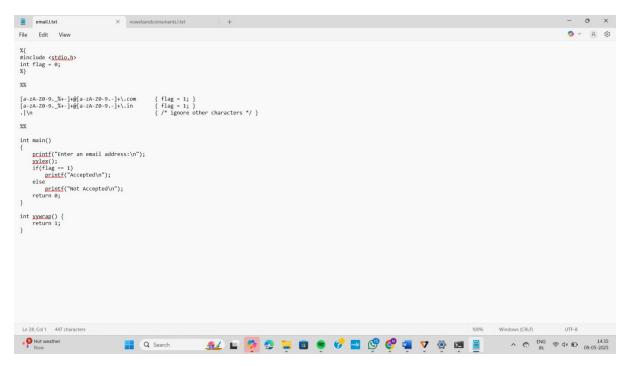


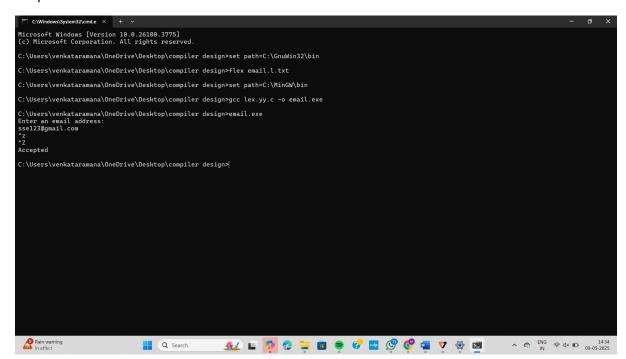
10) Write a LEX Program to convert the substring abc to ABC from the given input string Program:



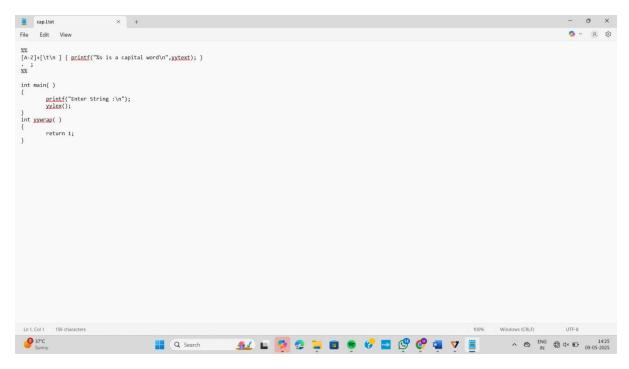


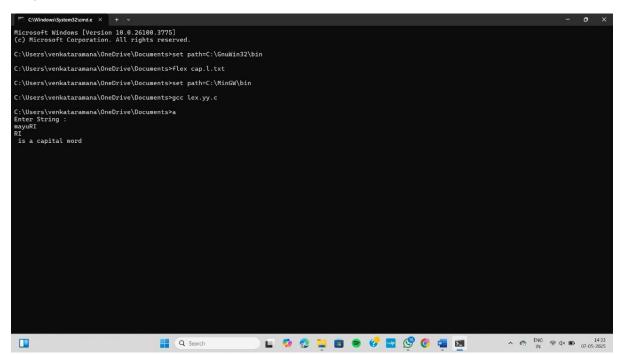
11) Write a LEX Program to check the email address is valid or not.





12) Write a LEX program to identify the capital words from the given input.





13) Write a LEX program to count the number of comment lines in a given C program and eliminate them and write into another file.

