```
3/9/2020
                               Week-4
   1. Write a regular definition to display a line of String for
Thursday
        following lexi-
    (a) All strings of degits atmost one repeated digit.
     #include (Stdia.h)
                                               OUTPUT
    #include (string.h)
    #in clude (Stdlib. h)
    int aw[10] = {0);
                                            Valid
                                           1122
    int flag = 0, C=0;
                                           Imalia
                                           1234
    Mun [0-9]
                                           Valid
    [num] [aw [atoi(yy text]]++; ]
    "\" }
          for(i=0; ix10; i++) {
               if(amci) >= 2) {
        if (c <= 1) prints ("Valid la");
        else printf ("Invalid (n');
      for (i=0; i(10; i++) aw[i] =0.
        C=0;
        {if(flag!=1) printf("Imalid In"); flag=1;3
   int main () {
          yyler();
```

veturn 0;

```
All estrings of a's & b's with our even number of a's & odd
(6)
    humber of bis
                                                 OUTPUT
    #mclude (Stdio.n)
                                              aas
    #include ( strang. h)
                                              Accepted
    # include (Stalib. 4)
                                              Not accepted
    int ac=0, bc=0, flag=0;
                                              aloc
    1-3
                                              Invalid
    "a" Eacte; ]
         { if (stag == 0 NN act-2 == 0 NN bc+2 == 1) printf("Acceptedly)
             else if (stog ==0) printf("Not accepted In");
             ac=0; bc=0;
           flag =0;
        Eprint ("Invalld In") ; flag = 1;)
   -1.4.
    int main () [
          yylex();
          return 0;
        All strings of lower are letters Containing 5 Vowels increden
      1. 2
```

Hinclude (Stdio. h)

It include (String h)

int flag = 1;

-1.3

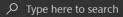
Consorant [bcdfg hjklmnpg rs trwny z] A art Locatgry xxmn py

a+ {consonant}*e+ { Consonant }* i+ { Consonant }*

1.0 5:00 ut ¿ consonat j Eves Eprint ("Kurd 1.5 ln", yytext);3 Eprintf ("Imalid In"); flag = 0; 5 OUTPUT aaeeiipaum Vald aaeeijouwu 1.1. yylex (); aineo Imatid

```
srihari@LAPTOP-AJMTFS87: ~/compiler_design/week4
 srihari@LAPTOP-AJMTFS87:~/compiler design/week4$ cat que3.c
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
int arr[10] = {0};
int flag = 0;
int c=0;
 num [0-9]
{num} {arr[atoi(yytext)]++;}
"\n" {
        int i=0;
        for(i=0;i<10;i++){
                if(arr[i] >= 2){
                        printf("Invalid\n");
                        flag = 1;
        if(c<=1){
                printf("Valid\n");
        else{
                printf("Invalid\n");
        for(i = 0; i<10; i++) arr[i] = 0;
        c = 0;
  {if(flag != 1)printf("Invalid\n");flag = 1;}
int main(){
        yylex();
        return 0;
 srihari@LAPTOP-AJMTFS87:~/compiler_design/week4$ ./a.out
112
Valid
1122
Invalid
1234
Valid
```





















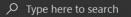






```
srihari@LAPTOP-AJMTFS87: ~/compiler_design/week4
srihari@LAPTOP-AJMTFS87:~/compiler design/week4$ cat que2.c
#include<stdio.h>
#include<string.h>
#include<stdlib.h>
int ac=0,bc=0;
int flag=0;
"a" {ac++;}
"b" {bc++;}
"\n" { if(flag == 0 && ac%2 == 0 && bc%2==1){printf("Accepted\n");}
        else if(flag == 0){ printf("Not accepted\n");}
        ac = 0;bc = 0;
        flag = 0;
  {printf("Invalid\n");flag = 1;}
int main(){
        yylex();
        return 0;
srihari@LAPTOP-AJMTFS87:~/compiler_design/week4$ lex que2.c
 rihari@LAPTOP-AJMTFS87:~/compiler design/week4$ cc lex.yy.c -11
 rihari@LAPTOP-AJMTFS87:~/compiler_design/week4$ ./a.out
aab
Accepted
abb
Not accepted
abcd
Invalid
Invalid
srihari@LAPTOP-AJMTFS87:~/compiler design/week4$
```



























```
srihari@LAPTOP-AJMTFS87: ~/compiler_design/week4
                                                                                                                                                                                                                    srihari@LAPTOP-AJMTFS87:~/compiler design/week4$ cat que1.c
#include<stdio.h>
#include<string.h>
int flag = 1;
consonant [bcdfghjklmnpqrstvwxyz]+
res a+{consonant}*e+{consonant}*i+{consonant}*o+{consonant}*u+{consonant}*
{res} {printf("Valid %s\n",yytext);}
. {printf("Invalid\n");flag=0;}
int main(){
        yylex();
        return 0;
srihari@LAPTOP-AJMTFS87:~/compiler_design/week4$ lex que1.c
srihari@LAPTOP-AJMTFS87:~/compiler_design/week4$ cc lex.yy.c -11
 rihari@LAPTOP-AJMTFS87:~/compiler_design/week4$ ./a.out
aaeeiiou
Valid aaeeiiou
abeihjokuzz
Valid abeihjokuzz
aiueo
Invalid
Invalid
Invalid
Invalid
Invalid
srihari@LAPTOP-AJMTFS87:~/compiler design/week4$
                                                                                                                                                                                       ^ ■ □ □ □ (1)) (6 ENG 03-09-2020
```

O # 0 = f 😻 🗲 🙍 0 🐠 🧕

∠ Type here to search