Cycle 2

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CS7B – Roll No :31

Question 3

Write a YACC program to recognize a valid variable which starts with a letter followed by any number of letters or digits.

Identifier.l

```
%{

   #include "y.tab.h"

%}

%%

[a-zA-Z_][a-zA-Z_0-9]* return letter;

[0-9]              return digit;

.              return yytext[0];

\n              return 0;

%%

int yywrap()

{

return 1;

}
```

Identifier.y :

```
%{
    #include<stdio.h>
    int valid=1;
%}
%token digit letter
%%
start : letter s
s :    letter s
    | digit s
    |
    ;
%%
int yyerror()
{
    printf("\nIts not a identifier!\n");
    valid=0;
    return 0;
}
int main()
{
    printf("\nEnter a name to tested for identifier ");
    yyparse();
```
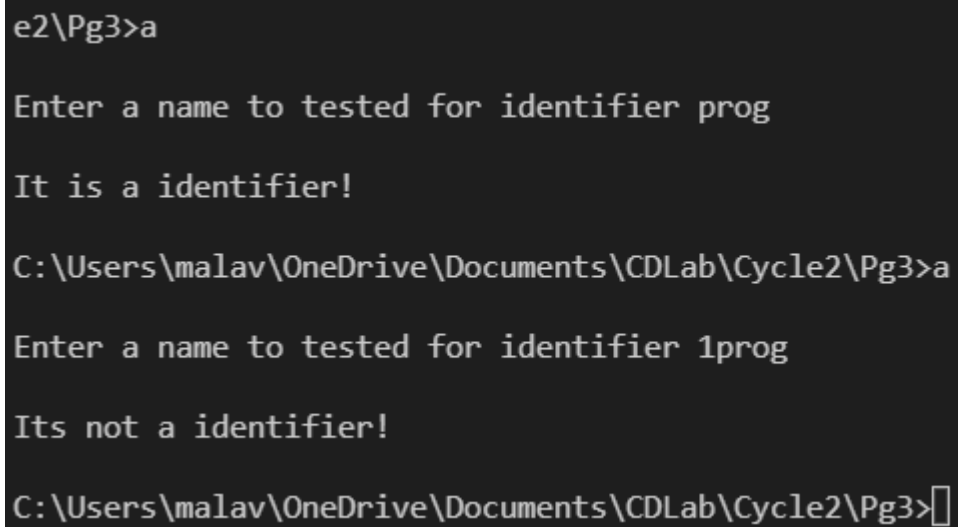
```c
    if(valid)

    {

        printf("\nIt is a identifier!\n");

    }

}
```

Output :

```
e2\Pg3>a

Enter a name to tested for identifier prog

It is a identifier!

C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg3>a

Enter a name to tested for identifier 1prog

Its not a identifier!

C:\Users\malav\OneDrive\Documents\CDLab\Cycle2\Pg3>
```