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. CSE

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Name: K.S.I.SIVANI

HT No.: 1602-21-433-052 Page No.:\_

# EXPERIMENT-1: Implement Scanner Programs using C.

# 1) Comments:

# include <stdio.h> # include <stalib.h> # include < string. h> int main () chay s[100]; int flag = 0, j, i; scanf("%s",s); for(i=0; s(i]!="\0";i++) { if (s[i] == '/') { if (S[i+1] == '/') f printf ("Single line comment\n");
flag = 1; break; } else 4 (s[i+1] == '\*') { for (j=i+2; s(j]!= '\*'; ++); y (s[j+1] == '/')

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<pre>fprintf("Multi line comment\n"); flag = 1; break; } }</pre>	
ig(flag == 0) { printf("No Comments\n");}	
returno;  output:	
/* abcd */ Mutti line comment	
abcdef	
No comments.	
abc 11 ab Single line comment:	

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Name: K'S.I.SIVANI HT No.: -052 Identifiers: #include <stdio.h> #include <stalibih> #include <string h> int main () char 5[100];

scanf("%s',s); int is flag = 0; 4('a'<=s(0] && s(0] <='&' 11 'A' < = S[0] & & S[0] < = 'Z' | | S[0] = = '-

{ for (i= 1; s[i] !='\0'; i++) { 4('a'<=s(i) &&s(i) <=3' 11 'A' <= s[i] & & s[i] <= 'Z' || 0 <= s[i] 22 s[i] <= 9 || s[i] == '\_

{ flag = 1; } else { flag=0; break; }.

is (flag = = 0) { printf (invalid Identifier \n");} else { printf (" Valid Identifier \n");}

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	Return 0;}
	OUTPUT:
$\rightarrow$	<u>abodef</u>
	Valid Identifier
$\rightarrow$	abcdef.
	Valid Identifier
<del>-&gt;</del>	123rth
	Invalid Identifier.
3)	Keywords:
	#include (Staio.h>
	#include &string.h>
	int main ()
	f char input[50];
	char * keywords []= { "auto", "break", "case",
	"char", "const", "default",
	"continue", "double", "else",
	"float", "for", "goto", "it", "int", "long", "return".];
	"int", "long", "return".

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	int num_keywords = size of (keywords) size of (keywords[0]) int i; printf("Enter a string:"); scanf("%s", input); int is_keyword=0; for(i=0; ix num_keywords; i+1)  { if (stremp(input, keywords[i]) ==0)  { is_keyword = 1; break;}  if (is_keyword) f printf("%s is a keyword\n", input); else { printf("%s is not a keyword\n", input);}
<b>→</b>	Seturn 0; Z.  Output:  Enter a String: int  int is a keyword.  Enter a string: abc  abc is not a keyword.

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4) Floating Number:
   #include <stdio.h>
  #include Estaboolih
  #include atype . h >
   bool is Floating Point (const char *str)
    { int dot count = 0;
      'ub (str[i] == '+' || str[i] == '-')
           i++>
       i (str[i] == '.')
         { dotCount ++; i++;
          while (isdigit (str[i]))
                1++ > }
       Return (str[i] == 10 & 2 dotCount == 1 & 2 1>0)
  int main()
   { char input[50];
      printf ("Enter a number:");
      scanf ("%s", input);
      4 (is Floating point (input)).
```

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{printf("%s is a floating-point number(n", input);
else { printf("% s is not a floating-point number(ni, input);
Return 0;
J
Enter a number: 5.2.
5.2 is a floating-point number.
Enter a number: 7
7 is not a floating point number.

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