

**1. Detect whether the given input string is keyword or not:**

```
//program 1: detect keyword or not keyword
#include <stdio.h>
#include <string.h>
#define MAX 5
#define max() {}
int main() {
    char keyword[32][10]={
        "auto","double","int","struct","break","else","long",
        "switch","case","enum","register","typedef","char",
        "extern","return","union","const","float","short",
        "unsigned","continue","for","signed","void","default",
        "goto","sizeof","volatile","do","if","static","while"
    };
    char str[20];
    puts("Enter a string");
    gets(str);
    int flag=0,i;
    for(i = 0; i < 32; i++) {
        if(strcmp(str,keyword[i])==0) {
            flag=1;
        }
    }
    if(flag==1)
        printf("%s is a keyword",str);
    else
        printf("%s is not a keyword",str);
}
```

**Lab Tasks:**

1. Write a program to determine whether the Given Input is Numeric Constant or Not.
2. Write a program to determine whether the Given Input is Operators or Not.
3. Write a program to determine whether the Given Input is Comment line(s) or Not.
4. Write a program to determine whether the Given Input is Identifier or Not.

2. A sample program is given below that splits the contents of a .text file using space(' '):

<pre>#include &lt;iostream&gt; #include &lt;fstream&gt; #include &lt;string&gt; #include &lt;sstream&gt;  using namespace std;  int main() {     ifstream input("split_text.txt");     string line;     while (getline(input, line, ' ')) {         cout &lt;&lt; line &lt;&lt; '\n';     }     return 0; }</pre>	<p><b>split_text.txt</b></p> <p>Hello World! I am CPP. position = initial + rate * 60</p>
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Sample output:

<pre>Hello World! I am CPP. position = initial + rate * 60  Process returned 0 (0x0)   execution time : 0.072 s Press any key to continue.</pre>	
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3. Here are some practice problem of fseek()

<pre>#include &lt;stdio.h&gt;  int main () {     FILE *fp;      fp = fopen("file.txt","w");     fputs("This is tutorialspoint.com", fp);      fseek( fp, 0, SEEK_SET );     fputs("C Programming", fp);     fclose(fp); }</pre>	<p>Output:</p> <p><b>file.txt</b></p> <p>C Programmingtutorialspoint.com</p>
---	--

```

    return(0);
}

```

A simple change of the above program:

```

#include <stdio.h>

int main () {
    FILE *fp;

    fp = fopen("file.txt","w");
    fputs("This is tutorialspoint.com",
fp);

    fseek( fp, 14, SEEK_SET );
    fputs("C Programming", fp);
    fclose(fp);

    return(0);
}

```

Output:

**file.txt**

This is tutoriC Programming

4. A program that reads a text file and identify the vowels and consonants:

Input.txt

```

Hello, World!
This is your first program in this lab.

```

programFile.cpp

```

#include <fstream>

int main()
{
    FILE *fp;
    int vowel=0,consonant=0;
    char ch;
    char message[200];

    fp=fopen("input.txt","r");

    if(fp==NULL)
    {
        printf("Source can't be opened");
        exit(-1);
    }
    while(!feof(fp))
    {

```

```

    fgets(message, 200, fp);
    printf("%s", message);
}
printf("\n\n");

fseek(fp, 0, SEEK_SET);

while(ch!=EOF)
{
    ch=fgetc(fp);

    if((ch=='a') || (ch=='A') || (ch=='e') || (ch=='E') || (ch=='i') || (ch=='I') ||
    (ch=='o') || (ch=='O') || (ch=='u') || (ch=='U'))
    {
        vowel++;
        printf("(%c) ", ch);
    }
    else if((ch>=65&&ch<=90) || (ch>=97&&ch<=122))
    {
        consonant++;
        printf("%c ", ch);
    }
}
fclose(fp);
printf("\n\nNumber of vowels are = %d\nNumber of consonants are =
%d",vowel,consonant);
return 0;
}

```

## Output

```

Hello, World!
This is your first program in this lab.

H (e) l l (o) W (o) r l d T h (i) s (i) s y (o) (u) r f (i) r s t p r (o) g r (a) m (i) n t h (i) s l (a) b

Number of vowels are = 13
Number of consonants are = 28
Process returned 0 (0x0)   execution time : 0.064 s
Press any key to continue.

```