



East Delta University

Department of CSE

Course Name: Compiler Design Lab
Course Code: CSE-320
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Submitted by:

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Experiment Name: write a C program to test whether identifier is valid or not

Program Logic:

- Read the given input string.
- Check the initial character of the string is numerical or any special character expect ' _ ' then print it is not a valid identifier.
- Otherwise print it as valid identifier if remaining characters of string doesn't contains any special characters expect ' _ '.

Program Solution:

```
#include<stdio.h>
#include<string.h>
int main()
{
    char text[40];
    int temp=1;
    int i;
    scanf("%s",&text);
    if((text[0]>='a' && text[0]<='z')
        || (text[0]>='A' && text[0]<='Z')
        || text[0]=='_')
    {
        for(i=1;i<strlen(text);i++)
        {
            if((text[i]>='a' && text[i]<='z')
                || (text[i]>='A' && text[i]<='Z')
                || text[i]=='_' || (text[i]-'0'>=0 && text[i]-'0'<=9))
            {
                continue;
            }
            else{
                temp=0;
                break;
            }
        }
    }
    else{
        printf("it is not a valid identifier ");
        exit(0);
    }
    if(temp==1)
    {
        printf("Valid identifier ");
    }else{
        printf("it is not a valid identifier ");
    }
    return 0; }
```

Input:

- #123
- Hello569

Output:

```
C:\Users\Iftakher\Desktop\compiler\stringValidation.exe
#123
it is not a valid identifier
Process returned 0 (0x0)   execution time : 7.000 s
Press any key to continue.

C:\Users\Iftakher\Desktop\compiler\stringValidation.exe
Hello569
Valid identifier
Process returned 0 (0x0)   execution time : 12.599 s
Press any key to continue.
```

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Signature