

Output:

Test case 1:

Enter any identifier : var-1.
var-1 is a valid identifier.

Test case 2:

Enter any identifier : 1-var.
1-var is not a valid identifier.

Test case 3:

Enter any identifier : -var1
-var1 is a valid identifier.

Expt.No.

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Q1.

ASSIGNMENT : 1.

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Write a C program to identify the valid identifiers/variables.

Code:

```
#include <stdio.h>
#include <conio.h>
#include <string.h>
int is Valid Identifier (char str[]) {
    int i;
    if ((str[0] >= 'a' && str[0] <= 'z') || (str[0] >= 'A' &&
        str[0] <= 'Z') || (str[0] == '_' || '-')) {
        for (int i = 0; i < strlen(str); i++) {
            if ((str[i] >= 'a' && str[i] <= 'z') || (str[i] >= 'A'
                && str[i] <= 'Z') && (str[i] >= '0' &&
                    str[i] <= '9') && (str[i] == '_' || '-')) {
                return 1;
            }
        }
        else {
            return 0;
        }
    }
    int main() {
        char str[1000];
        printf ("Enter any identifier : ");
        scanf ("%s", &str);
```

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Teacher's Signature

Output :

Test case 1 :

Enter any comment in C : // comment
It is a valid comment.

Test case 2 :

Enter any comment in C : /* comment line */.
It is multi line comment.

Test case 3 :

Enter any comment in C : # comment.
It is not valid comment in C.

Q2.

Write a C program to identify the valid comments in C.

Code :

```
#include <stdio.h>
#include <string.h>
#include <conio.h>
int is ValidComment (char str []) {
    if (str[0] == '/' && str[1] == '/' && str[2] != '/') {
        return 1;
    }
    else if (str[0] == '/' && str[1] == '*' && str[strlen(str)-1]
        == '/' && str[strlen(str)-2] == '*') {
        return 2;
    }
    else {
        return 0;
    }
}
```

Teacher's Signature

```

int main() {
    char str [1000];
    printf ("Enter any comment in c : ");
    scanf ("%s", &str);
    if (isValidComment == 1) {
        printf ("It is a single line comment");
    }
    else if (isValidComment == 2) {
        printf ("It is a multi line comment.");
    }
    else {
        printf ("It is not a valid comment in c.");
    }
    return 0;
}

```

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