C library function - ispunct()

Description

The C library function **int ispunct(int c)** checks whether the passed character is a punctuation character. A punctuation character is any graphic character (as in isgraph) that is not alphanumeric (as in isalnum).

Declaration

Following is the declaration for ispunct() function.

```
int ispunct(int c);
```

Parameters

- ▫ **c** − This is the character to be checked.

Return Value

This function returns a non-zero value(true) if c is a punctuation character else, zero (false).

Example

The following example shows the usage of ispunct() function.

Live Demo

```c
#include <stdio.h>
#include <ctype.h>

int main () {
   int var1 = 't';
   int var2 = '1';
   int var3 = '/';
   int var4 = ' ';

   if( ispunct(var1) ) {
      printf("var1 = |%c| is a punctuation character\n", var1 );
   } else {
      printf("var1 = |%c| is not a punctuation character\n", var1 );
   }

   if( ispunct(var2) ) {
      printf("var2 = |%c| is a punctuation character\n", var2 );
```

```
   } else {
      printf("var2 = |%c| is not a punctuation character\n", var2 );
   }

   if( ispunct(var3) ) {
      printf("var3 = |%c| is a punctuation character\n", var3 );
   } else {
      printf("var3 = |%c| is not a punctuation character\n", var3 );
   }

   if( ispunct(var4) ) {
      printf("var4 = |%c| is a punctuation character\n", var4 );
   } else {
      printf("var4 = |%c| is not a punctuation character\n", var4 );
   }

   return(0);
}
```

Let us compile and run the above program that will produce the following result −

```
var1 = |t| is not a punctuation character
var2 = |1| is not a punctuation character
var3 = |/| is a punctuation character
var4 = | | is not a punctuation character
```