

## C library function - isalpha()

### Description

The C library function **int isalpha(int c)** checks if the passed character is alphabetic.

### Declaration

Following is the declaration for isalpha() function.

```
int isalpha(int c);
```

### Parameters

- **c** – This is the character to be checked.

### Return Value

This function returns non-zero value if c is an alphabet, else it returns 0.

### Example

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

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

int main () {
    int var1 = 'd';
    int var2 = '2';
    int var3 = '\t';
    int var4 = ' ';

    if( isalpha(var1) ) {
        printf("var1 = |%c| is an alphabet\n", var1 );
    } else {
        printf("var1 = |%c| is not an alphabet\n", var1 );
    }

    if( isalpha(var2) ) {
        printf("var2 = |%c| is an alphabet\n", var2 );
    } else {
        printf("var2 = |%c| is not an alphabet\n", var2 );
    }
}
```

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```
}

if( isalpha(var3) ) {
    printf("var3 = |%c| is an alphabet\n", var3 );
} else {
    printf("var3 = |%c| is not an alphabet\n", var3 );
}

if( isalpha(var4) ) {
    printf("var4 = |%c| is an alphabet\n", var4 );
} else {
    printf("var4 = |%c| is not an alphabet\n", var4 );
}

return(0);
}
```

Let us compile and run the above program, to produce the following result –

```
var1 = |d| is an alphabet
var2 = |2| is not an alphabet
var3 = |   | is not an alphabet
var4 = | | is not an alphabet
```