**A9 - WAP to implement your own isalnum() function**

/\*

Name : Nestin Gregorios Sunny

Date : 06.05.2025

Description :

Write a program to check whether given character is alphanumeric. Define our own function as my\_isalnum(int ch)

Sample Input :

Enter the character: a

Sample Output :

Entered character is alphanumeric character

\*/

#include <stdio.h>

int my\_isalnum(int); //declaration

int main()

{

char ch;

int ret;

printf("Enter the character:");

scanf("%c", &ch);

ret = my\_isalnum(ch); //call

/\*

Based on return value, print whether ch is alphanumeric or not

\*/

if(ret == 1)

{

printf("\nEntered character is alphanumeric character");

}

else

{

printf("\nEntered character is not alphanumeric character");

}

}

int my\_isalnum(int ch) //definition

{

if((ch >= 65 && ch <= 90) || (ch >=97 && ch <= 122) || (ch >=48 && ch <= 57))

{

return 1;

}

else

{

return 0;

}

}

**A10 - WAP to implement your own islower() function**

/\*

Name : Nestin Gregorios Sunny

Date : 06.05.2025

Description :

Program to check given character is lower case or not.

Sample Input :

3

Sample Output :

Entered character is not lower case alphabet

\*/

#include <stdio.h>

int my\_islower(int); //declaration

int main()

{

char ch;

int ret;

printf("Enter the character:");

scanf("%c", &ch);

ret = my\_islower(ch); //call

/\*

Based on return value, print whether ch is lower case alphabet or not

\*/

if(ret == 1)

{

printf("\nEntered character is lower case alphabet");

}

else

{

printf("\nEntered character is not lower case alphabet");

}

}

int my\_islower(int ch) //definition

{

if(ch >= 97 && ch <= 122)

{

return 1;

}

else

{

return 0;

}

}

**A11 - WAP to implement your own ispunct() function**

/\*

Name : Nestin Gregorios Sunny

Date : 06.05.2025

Description :

Program to check given character is punctuation mark or not.

Sample Input :

Enter the character: a

Sample Output :

Entered character is not punctuation character

\*/

#include <stdio.h>

int my\_ispunct(int); //declaration

int main()

{

char ch;

int ret;

printf("Enter the character:");

scanf("%c", &ch);

ret = my\_ispunct(ch); //call

if(ret == 1)

{

printf("\nEntered character is punctuation character");

}

else

{

printf("\nEntered character is not punctuation character");

}

/\*

Based on return value, print whether ch is lower case alphabet or not

\*/

}

int my\_ispunct(int ch)

{

if((ch >= 65 && ch <= 90) || (ch >= 97 && ch<= 122) ||(ch >= 48 && ch<= 57 ))

{

return 0;

}

else

{

return 1;

}

}

**A12 - WAP to implement your own isxdigit() function**

/\*

Name : Nestin Gregorios Sunny

Date : 06.05.2025

Description :

Program to check given value is hexadecimal or not.

Sample Input :

Enter the character: G

Sample Output :

Entered character is not an hexadecimal

\*/

#include <stdio.h>

int is\_xdigit(int); //declaration

int main()

{

char ch;

short ret;

printf("Enter a character: ");

scanf("%c", &ch);

ret = is\_xdigit(ch); //call

/\* Based on the return value of the function print the message \*/

if(ret == 1)

{

printf("\nEntered character is an hexadecimal digit");

}

else

{

printf("\nEntered character is not an hexadecimal digit");

}

return 0;

}

int is\_xdigit(int ch) //definition

{

if((ch >= 48 && ch <= 57) || (ch >= 65 && ch <= 70) || (ch >= 97 && ch <= 102))

{

return 1;

}

else

{

return 0;

}

}