This all takes only one parameter that is the character to be checked.

isalpha() -->test alphabet

Its return value is non-zero value if c is an alphabet, else it returns 0.

isupper() -->test uppercase

Its return value is non-zero value if c is an uppercase, else it returns 0.

islower() -->test lowercase

Its return value is non-zero value if c is an lowercase, else it returns 0

isdigit() -->test digit

Its return value is non-zero value if c is an digit, else it returns 0

toupper():the toupper() function converts a lowercase alphabet to an uppercase alphabet

(if any)

tolower():the tolower() function converts a uppercase alphabet to an lowercase alphabet

(if any)

demonstration code -1

# include <iostream>

using namespace std;

int main(){

string str="india OUR 32543 country";

char ch;

cout<<"0 means false , non zero means true\n";

for(int i=0;i<str.size();i++){

ch=str[i];

cout<< ch <<" isdigit :"<< isdigit(ch)<<"\t";

cout<< ch <<" isalpha :"<< isalpha(ch)<<"\t";

cout<< ch <<" islower :"<< islower(ch)<<"\t";

cout<< ch <<" isupper :"<< isupper(ch)<<"\t";

cout<<endl;

}

}

demonstration code -2

# include <iostream>

using namespace std;

int main(){

char ch='A';

ch=toupper(ch); // no changes

cout<<ch<<endl;

ch=tolower(ch); // change upper to lower

cout<<ch;

}

string question:

1)WAP to count number of uppercase letters, and lowercase letter

in a string s ,given by user.

if s="apple IS"

upper: 2

lower: 5

2)WAP to count number of digits, and alphabet in a string s ,

given by user.

if s="apple 123"

alphabet: 5

digits: 3

3)WAP to swap the upper character to lower and vice-versa

if s="Apple"

output="aPPLE"

4)WAP to Capitalize each word of a array names.

names={"ajay","rahul","ritu","raj"}

output={"Ajay","Rahul","Ritu","Raj"}

5)WAP to create a new string s2,with the help of old string s1.

such that all digits are removed from it.

s1="abcdef1234pqrs"

s2="abcdefpqrs"