

## **Chapter 9: String Handling and I/O Functions**

A character array can be used to store a string, since it is a sequence of characters. The array char my\_name[10]; can store a string of 9 characters. One location will be used to store '\0' (null character) as string terminator.

A string can be input using the statement:

```
cin >> my_name;
```

This statement can store a string without any white space (that is, only one word). If we want store strings containing white spaces (strings having more than one word) we can use gets() function, getline() function or get() function.

Similarly to display string data we can use puts() function and write(0 function.

There are functions to perform input output operation on characters also. The table shows them:

Type of data	Console functions (stdio.h header file)	Stream functions (iostream.h header file)	Operation
Character functions	getchar()	cin.get()	Character input
	putchar()	cout.put()	Character output
String functions	gets()	cin.getline(), cin.get()	String input
	puts()	cout.write()	String output

## **Questions from Previous Years' Question Papers**

1. Consider the following C++ program.

```
#include<iostream>
using namespace std;
int main()
{
   char str[20];
   cin>>str;
   cout<<str;
}</pre>
```

What will be the output if we input the string "Vande Mataram". Justify your answer.

(2) (July 2017)

What is the advantage of using gets() function in C++ program to input string data?Explain with an example. (2) (March 2017)

## Computer Science - XI

- 3. a) Write the declaration statement for a variable 'name' in C++ to store a string of maximum length 30.(1)
  - b) Differentiate the statements cin>>name; and gets (name); for reading data to the variable 'name'.(1) (Sept. 2016)
- 4. Consider the following C++ statements:

```
char word[20];
cin>>word;
cout<<word;
gets(word);
puts(word);</pre>
```

If the string entered is "HAPPY NEW YEAR", predict the output and justify your answer.

(2) (March 2016)

- 5. a) my\_name is a variable contains a string. Write two different C++ statements to display the string. (2)
  - b) ..... function is used to copy a string to another variable.
- (1) (Sept. 2015)

6. Read the following code:

```
char str[30];
cin >> str;
cout << str;</pre>
```

If we give the input "Green Computing", we get the output "Green". Why is it so? How can you correct that?

(2) (March 2015)