

FACULTY OF ENGINEERING & TECHNOLOGY

CSPS103: Object Oriented Programming

Lecture-36

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OBJECTIVES

In this lecture, you will learn to:

- **❖Read and Write Example**
- **❖getline() Function**
- **❖Getline Character Array**



READ AND WRITE EXAMPLE

```
#include <fstream>
#include <iostream>
int main () {
  char input[75];
  ofstream os;
  os.open("testout.txt");
  cout <<"Writing to a text file:" << endl;
  cout << "Please Enter your name: ";</pre>
  cin.getline(input, 100);
  os << input << endl;
  cout << "Please Enter your age: ";
  cin >> input;
  cin.ignore();
  os << input << endl;
  os.close();
  ifstream is;
  string line;
  is.open("testout.txt");
  cout << "Reading from a text file:" << endl;
  while (getline (is,line))
  cout << line << endl;
  is.close();
  return 0;
```



GETLINE() FUNCTION

☐The cin is an object which is used to take input from the user but does not allow to take the input in multiple lines.
☐To accept the multiple lines, we use the getline() function.
□It is a pre-defined function defined in a <string.h> header file used to accept a line or a string from the input stream until</string.h>
the delimiting character is encountered. RAMA UNIVERSITY UTTAR PRADESH

EXAMPLE GETLINE() FUNCTION

```
#include <iostream>
#include<string.h>
int main()
string name; // variable declaration.
std::cout << "Enter your name :" << std::endl;
getline(cin,name); // implementing a getline() function
cout<<"\nHello "<<name;
return 0;
```

GETLINE CHARACTER ARRAY

☐ getline() function is used for character array.

Example

```
#include <iostream>
#include<string.h>
int main()
char fruits[50]; // array declaration
cout<< "Enter your favorite fruit: ";</pre>
cin.getline(fruits, 50); // implementing getline() function
std::cout << "\nYour favorite fruit is :"<<fruits << std::endl;
return 0;
```

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Multiple Choice Question:

Q1. Which one is always faster in writing on C++?

- a) Writing to a file
- b) Writing to memory
- c) Reading from the network
- d) Deleting a file



Multiple Choice Question:

Q2. How many tests are available in read and write operations?

- a) 1
- b) 2
- c) 3
- d) 4



Multiple Choice Question:

Q3. What will act as a intermediate between i/o operations and physical file?

- a) Memory
- b) Ram
- c) Stream buffer
- d) Storage



Multiple Choice Question:

Q4. By using which function does the buffer are automatically flushed?

- a) fopen
- b) copy
- c) compare
- d) fclose



Multiple Choice Question:

Q5. How many parameters are available in the function setbuf?

- a) 1
- b) 2
- c) 3
- d) 4



Summary

In this lecture, you learned that:

> We can also define the getline() function for character array.

