



FACULTY OF ENGINEERING & TECHNOLOGY

CSPS103: Object Oriented Programming

Lecture-27

Preeti Singh

Department of Computer Science & Engineering
Rama University, Kanpur

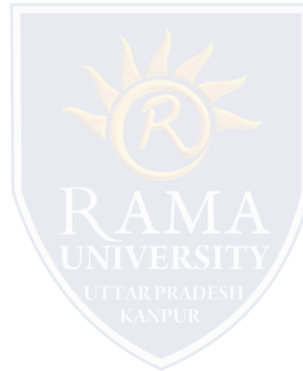
preeti.ru@ramauniversity.ac.in

OBJECTIVES

In this lecture, you will learn to:

❖ **Strings**

❖ **String Examples**



STRINGS

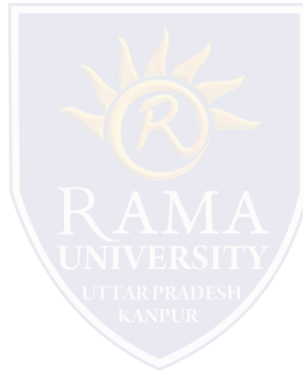
❑ In C++, string is an object of string class that represents sequence of characters.

❑ We can perform many operations on strings such as

❑ concatenation

❑ comparison

❑ conversion etc.



STRING EXAMPLE

```
#include <iostream.h>
```

```
int main( )
```

```
{
```

```
    string s1 = "Hello";
```

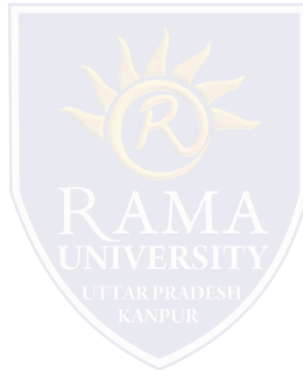
```
        char ch[] = { 'C', '+', '+'};
```

```
    string s2 = string(ch);
```

```
    cout<<s1<<endl;
```

```
    cout<<s2<<endl;
```

```
}
```



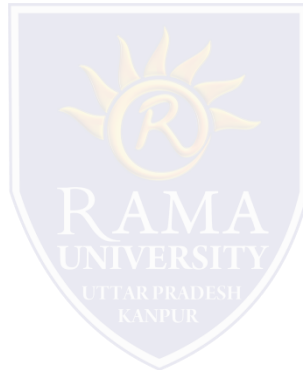
STRING COMPARE EXAMPLE

```
#include <iostream>

#include <cstring>

using namespace std;

int main ()
{
    char key[] = "mango";
    char buffer[50];
    do {
        cout<<"What is my favourite fruit? ";
        cin>>buffer;
    } while (strcmp (key,buffer) != 0);
    cout<<"Answer is correct!!"<<endl;
    return 0;
}
```



STRING CONCAT EXAMPLE

```
#include <iostream>

#include <cstring>

using namespace std;

int main()
{
    char key[25], buffer[25];

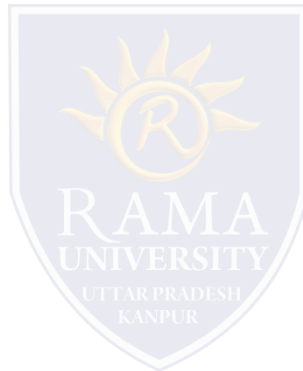
    cout << "Enter the key string: ";
    cin.getline(key, 25);

    cout << "Enter the buffer string: ";
    cin.getline(buffer, 25);

    strcat(key, buffer);

    cout << "Key = " << key << endl;
    cout << "Buffer = " << buffer << endl;

    return 0;
}
```



STRING COPY EXAMPLE

```
#include <iostream>

#include <cstring>

using namespace std;

int main()
{
    char key[25], buffer[25];

    cout << "Enter the key string: ";

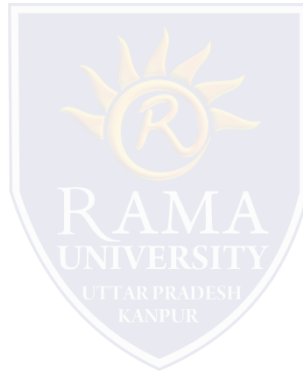
    cin.getline(key, 25);

    strcpy(buffer, key);

    cout << "Key = "<< key << endl;

    cout << "Buffer = "<< buffer<<endl;

    return 0;
}
```



STRING LENGTH EXAMPLE

```
#include <iostream>

#include <cstring>

using namespace std;

int main()
{
    char ary[] = "Welcome to C++ Programming";
    cout << "Length of String = " << strlen(ary)<<endl;

    return 0;
}
```



REFERENCES

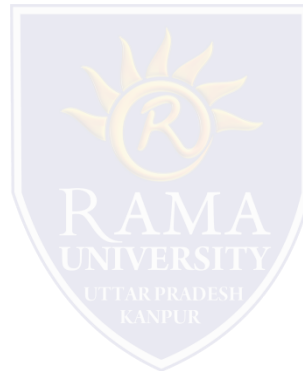
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MULTIPLE CHOICE QUESTION

Multiple Choice Question:

Q1. How many types of representation are in the string?

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

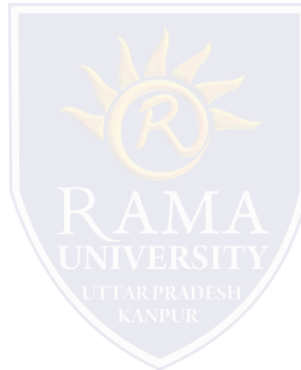


MULTIPLE CHOICE QUESTION

Multiple Choice Question:

Q2. What is the header file for the string class?

- a) `#include<ios>`
- b) `#include<str>`
- c) `#include<string>`
- d) `#include<stio>`

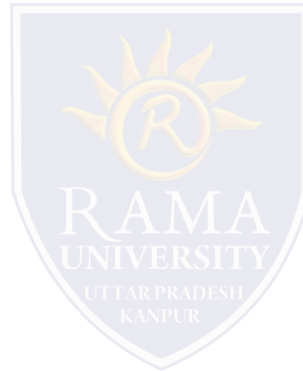


MULTIPLE CHOICE QUESTION

Multiple Choice Question:

Q3. Which is used to return the number of characters in the string?

- a) length
- b) size
- c) both size & length
- d) name

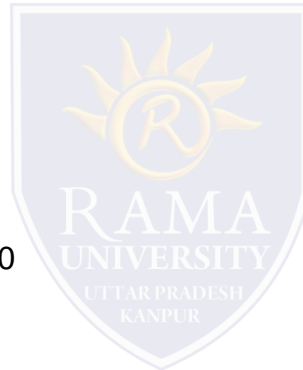


MULTIPLE CHOICE QUESTION

Multiple Choice Question:

Q4. What is string objects in C++?

- a) Stream of alphabets
- b) A stream of well-defined characters
- c) Stream of characters
- d) A stream of characters terminated by \0



MULTIPLE CHOICE QUESTION

Multiple Choice Question:

Q5. What is Character-Array?

- a) array of alphabets
- b) array of well-defined characters
- c) array of characters
- d) array of characters terminated by \0



Summary

In this lecture, you learned that:

- String is an object of string class that represents sequence of characters.

