

Day – 18 of 101 days coding challenge

-----String-----

Character Arrays

- Need to know size beforehand.
- Larger size required for operations(concatenate or append).
- No terminating extra character.

Strings



- No need to know size beforehand.
- Performing operations like concatenation & append is easier.
- Terminated with a special character '\0'.



Code:-

```
#include<iostream>
```

```
#include<algorithm>
```

```
#include<string.h>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    // diiferent way of input string
```

```
string str2 = "Ravi kumar Pathak";
```

```
string str1, str3, str4;
```

```
string str(12, 'n'); // it will show 12 times ravi
```

```
cout<<str<<endl;
```

```
cout<<"Enter the string"<<endl; // 2nd way
```

```
cin>>str1;
```

```
cout<<str2<<endl; // 3rd way
```

```
// string functions
```

```
cout<<"String functions"<<endl;
```

```
// adding two string
```

```
str3 = "Hello,";
```

```
str4 = "Ravi";
```

```
str3.append(str4); // 1st way
```

```
cout<<str3<<endl;
```

```
cout<<str1 + str2 <<endl; // 2nd way
```

```
// accessing the particuler charecter of the string
```

```
cout<<str3[2]<<endl;
```

```
// comparing the size of the string
```

```
cout<<str3.compare(str4)<<endl; // if 0 then equal +(str3 >) and -  
(str3<)
```

```
// empty
```

```
cout<<str3.empty()<<endl;
```

```
// inserting element into the string
```

```
cout<<str3.insert(3, "go")<<endl;
```

```
// finding the length
```

```
cout<<str3.length()<<endl;
```

```
// sorting the string
```

```
sort(str3.begin(), str3.end());
```

```
cout<<str3<<endl;
```

```
return 0;
```

```
}
```

Output:-

```
nnnnnnnnnnnnnnnnnnnn
Enter the string
Ravi
Ravi kumar Pathak
String functions
Hello,Ravi
RaviRavi kumar Pathak
1
-1
0
Helgolo,Ravi
12
,HRaegilloov

-----
Process exited after 3.435 seconds with return value 0
Press any key to continue . . .
```