

Bahria University,

Karachi Campus



Bahria University
Discovering Knowledge

COURSE: CSC -113 Computing Programming lab
TERM: SPRING 2020, CLASS: BCE- 2A

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Submitted By:

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Submitted To:

1. Find the length of the string (the String should be inserted by the user)

```
8
9 #include <iostream>
10 #include<string>
11 using namespace std;
12 int main()
13 {
14     string str;
15     cout<<"enter string:"<<endl;
16     getline(cin,str);
17     cout<<"Length of given string is:" << str.length() << endl;
18     return 0;
19 }
20
```

input

enter string:
5
Length of given string is:1

...Program finished with exit code 0
Press ENTER to exit console.

2.Take 2 strings as an input and concatenate them.

```
8 #include <iostream>
9 #include<string>
10 using namespace std;
11 int main()
12 {
13     string str1, str2, result;
14     cout << "Enter string s1: "<<endl;
15     getline (cin, str1);
16     cout << " Enter string s2: "<<endl;
17     getline (cin, str2);
18     result = str1 + str2;
19     cout << "concatenated String = "<< result;
20     return 0;
21 }
22
23
```

input

Enter string s1:
23
Enter string s2:
43
concatenated String = 2343

...Program finished with exit code 0
Press ENTER to exit console.

3. Write a C++ that contain two strings:

String1= "This program is to test several string functions".

String2 = "Testing"

Perform following functions on these strings:

1. strfind() on String1.// test
2. Substr()on string 1 // several string
3. strlen() on String1 and String2
4. insert() " Despicable me!!" in String2
5. remove() "Testing" from String2
6. replace() "Program is" from String1 and insert " Despicable me!!" in String1.

3.1

```

8  #include <iostream>
9  #include<string>
10 using namespace std;
11 int main()
12 {
13     string str1="program to test several string functions";
14     cout<<str1<<endl;
15     cout <<"Position of the a word is :";
16     cout<<str1.find("program")<<endl;
17     string str2="Testing";
18     cout<<str2<<endl;
19     return 0;
20 }
21

```

input

```

program to test several string functions
Position of the a word is :0
Testing

...Program finished with exit code 0
Press ENTER to exit console.

```

3.2

```

8
9 #include <iostream>
10 #include<string>
11 using namespace std;
12 int main()
13 {
14     string str="This program is to test several string functions";
15     string str1= str.substr(5,10);
16     cout<<str1<<endl;
17     string str2="Testing";
18     cout<<str2<<endl;
19     return 0;
20 }

```

input

program is
Testing

...Program finished with exit code 0
Press ENTER to exit console.

3.3

```

8 #include <iostream>
9 #include<string>
10 using namespace std;
11 int main()
12 {
13     string str1="This program is to test several string functions";
14     cout<<str1<<endl;
15     cout<<"Length of given string is:" <<str1.length() << endl;
16     string str2="Testing";
17     cout<<str2<<endl;
18     cout<<"Length of given string is:" << str2.length() << endl;
19     return 0;
20 }
21

```

input

This program is to test several string functions
Length of given string is:48
Testing
Length of given string is:7

...Program finished with exit code 0
Press ENTER to exit console.

3.4

```
8 #include <iostream>
9 #include<string>
10 using namespace std;
11 int main()
12 {
13     string str1="This program is to test several string functions";
14     cout<<str1<<endl;
15     string str2="Testing";
16     str2.insert(7," Despicable me!!");
17     cout<<str2<<endl;
18     return 0;
19 }
```

input

This program is to test several string functions
Testing Despicable me!!

...Program finished with exit code 0
Press ENTER to exit console.

3.5

```
8 #include <iostream>
9 #include<string>
10 using namespace std;
11 int main()
12 {
13     string str1="This program is to test several string functions";
14     cout<<str1<<endl;
15     string str2="Testing";
16     str2.erase(0,7);
17     cout<<str2<<endl;
18     return 0;
19 }
20
```

input

This program is to test several string functions

...Program finished with exit code 0
Press ENTER to exit console.

3.6

```
7
8 #include <iostream>
9 #include<string>
10 using namespace std;
11 int main()
12 {
13     string str1="This program is to test several string functions";
14     str1.replace (4,12,"Despicable me!! ");
15     cout<<str1<<endl;
16     string str2="Testing";
17     cout<<str2<<endl;
18     return 0;
19 }
20
21
```

input

ThisDespicable me!! to test several string functions
Testing

...Program finished with exit code 0
Press ENTER to exit console.