(a) Fetch a substring from a given string. Find its position and length.

Code (a):

```
sing namespace std;
   string str2;
  getline(cin, str);
  getline(cin, str2);
  if (str.find(str2)>str.length())
      cout<<"substring not found";</pre>
  cout<<"postition of substring is : \n";</pre>
  cout << str.find(str2) << endl;</pre>
  cout<<str2.length();</pre>
```

```
}
```

Output (a):

```
DEBUG CONSOLE PROBLEMS OUTPUT
                                      TERMINAL
cd "/Users/amzamani/Desktop/sem3/DS/ds lab/assgn02/" && g++ substring.cpp -o
bstring
Abus-Air:ds lab amzamani$ cd "/Users/amzamani/Desktop/sem3/DS/ds lab/assgn02
sem3/DS/ds lab/assgn02/"substring
Please enter the string:
abc def ghi
Please enter the substring to fetch :
substring not found
Abus-Air:assgn02 amzamani$ cd "/Users/amzamani/Desktop/sem3/DS/ds lab/assgn0
/sem3/DS/ds lab/assgn02/"substring
Please enter the string:
abc def ghi jkl
Please enter the substring to fetch :
postition of substring is :
length of substring is:
Abus-Air:assgn02 amzamani$
```

(b) Replacement of a substring with another.

Code (b):

```
using namespace std;
   string str2;
  string str3;
  cout << "Please enter the substring to replace : \n";</pre>
  getline(cin, str2);
  if(str.find(str2)>str.length())
  int pos = str.find(str2);
  int pos_last = str2.length();
  cout <<"Please enter the substring to replace with : \n";</pre>
  getline(cin,str3);
  cout<<pos<<endl;</pre>
```

```
cout<<pos_last<<endl;
str.replace(pos,pos_last,str3);

cout<<endl;
cout<<str;
cout<<endl;
}</pre>
```

Output (b):

```
Abus-Air:assgn02 amzamani$ cd "/Users/amzamani/Desktop/sem3/DS/ds lab/assgn
op/sem3/DS/ds lab/assgn02/"replacestr
Please enter the string:
abc musaddig zamani
Please enter the substring to replace :
abu
substring not found
Abus-Air:assgn02 amzamani$ cd "/Users/amzamani/Desktop/sem3/DS/ds lab/assgn
op/sem3/DS/ds lab/assgn02/"replacestr
Please enter the string:
abc musaddig zamani
Please enter the substring to replace :
abc
Please enter the substring to replace with:
abu
0
3
abu musaddiq zamani
Abus-Air:assgn02 amzamani$
```

(c) Concatenation of two strings.

Code (c):

```
#include<iostream>
finclude<string>
using namespace std;
int main()
{
    string str;
    string str2;
    cout << "Please enter the 1st string: \n";
    getline(cin, str);
    // char c = str[0];
    // cout<<<<<endl;

cout << "Please enter the 2nd string: \n";
    getline(cin, str2);
    cout<<<"combined string:";
    cout<<str+str2;
    cout<<<endl;
}</pre>
```

Output (c):

```
Abus-Air:assgn02 amzamani$ cd "/Users/amzamani/Desktop/sem3
DS/ds lab/assgn02/"concat
Please enter the 1st string:
abu
Please enter the 2nd string:
zamani
combined string:abu zamani
```