

Homework Questions of 25th February 2023.

Q1 What will happen when we make a character array of size = 4 and then assign 4 characters to it. What will happen to null character?

```
char name[4] = "love";
```

The above line gives an error stating `const char[5]` can not be used to initialize an entity of type `char[4]`.

love → 5 characters (l + o + v + e + \0)
4 hence can not be stored in size = 4.

Q2 Write a program to convert uppercase string to the lowercase string.

i/p → BHAVYA

o/p → bhavya

The formulae to convert any uppercase character to the lowercase character is

$$ch = ch - 'A' + 'a';$$

Code

```
void convertToLowerCaseString (char name[]
```

```
    int n = getlength (name);
```

```
    for (int i=0; i<n; i++) {
```

```
        if (name[i] >= 'A' && name[i] <= 'Z')
```

```
            name[i] = name[i] - 'A' + 'a';
```

```
        }
```

```
    }
```

```
}
```

Q3 Use different variants of replace function of strings.

1) string str = "This is a short phrase";

`str.replace(22, 1, 3, '!');`

22 → Index of 1st character to replace

1 → Number of characters to be replaced

3 → Number of characters to insert

! → Which character to insert.

2) `str.replace(8, 6, "a shorty", 7);`

8 → Index of 1st character to replace

6 → No. of characters to be replaced

a shorty → String to insert

7 → Number of characters from s to use.

3) `str.replace(19, 6, "a shorty", 7, 6);`

19 → Index of 1st character to replace

6 → No. of characters to be replaced

a shorty → String to insert

7 → Index of 1st character of str to use

6 → Number of characters from str to use