String Functions:

1. String Length:

```
size_t my_strlen(const char *str)
{
    //Write the Logic for finding length of the string
    //u should not use strlen
    //return the length
}
```

2. String Copy

Proto type === void my_strcpy(char *dest, char *src);
Copy the content of src string to the destination string

```
void my_strcpy(char *dest, const char *src)
{
    //Logic for copy
    //Copy the content from src to destination
}
int main()
{
    char s1[100] = "Hello world";
    char s2[100];
    my_strcpy(s2, s1);
    print(s2);
}
```

3. String compare

prototype ==> int my_strcmp(char *s1, char *s2);

e.g., 1.
s1 = "Ram"
s2 = "Ram"
Return value 0;

e.g., 2.
s1 = "RAM"
s2 = "Ram"
Return 'A' - 'a';
return 65 - 97;
return -32;
return -1;

e.g., 3.
s1 = "Ram"
s2 = "RAM"
Return 'a' - 'A';
return 97 - 65;
return 32;
return 1;

e.g., 4.
s1 = "Rama"
s2 = "Ram"
Return value 'a' - 0;
return 97;
return 1;

e.g., 5.
s1 = "Ram"
s2 = "XYZ"
Return value 'R' - 'X';

```
int main()
{
    char s1[] = "Something";
    char s2[] = "heresome";
    int status;
    status = my_strcmp(s1, s2);
    if (status == 0)
    {
        print (SAME STRINGS);
```

```
    }
    else
    {
        print (Different STRINGS);
    }
    return 0;
}
int my_strcmp(char *s1, char *s2)
{
    //Logic for comparing the strings
    return 0 or pos or neg;
}
```

4. String Case compare

prototype ==> int my_strcasecmp(char *s1, char *s2);
// Irrespective of the case u need to do the comparision
e.g., 1.
s1 = "Ram"
s2 = "Ram"
Return value 0;

e.g., 2.
s1 = "RAM"
s2 = "Ram"
return 0;

e.g., 3.
s1 = "Ram"
s2 = "RAM"
return 0;

e.g., 4.
s1 = "Rama"
s2 = "Ram"
Return value 'a' - 0;
return 97;

return 1;

e.g., 5.
s1 = "Ram"
s2 = "XYZ"
Return value 'R' - 'X';

```
int main()
{
    char s1[] = "Something";
    char s2[] = "heresome";
    int status;
    status = my_strcasecmp(s1, s2);
    if (status == 0)
    {
        print (SAME STRINGS);
    }
    else
    {
        print (Different STRINGS);
    }
    return 0;
}
int my_strcasecmp(char *s1, char *s2)
{
    //Logic for comparing the strings ignore the case
    return 0 or pos or neg;
}
```

5. String is palindrome or not

```
    // Reverse the string
    // Compare string

int main()
{
    char s1[100] = "Malayalam";
    char s2[100];
```

```
    my_strcpy(s2, s1);// s2 conatain "Malayalam";
    my_strrev(s1);
    if (my_strcmp(s1, s2) == 0)
    {
        PRINT(PALINDROME);
    }
    else
    {
        PRINT(NOT PALINDROME);
    }
}
void my_strrev(char *s)
{
    // Logic for Reversing the string
}
```