**DAY-11**

**Error:**

free(): double free detected in tcache 2

**Strings:**

* Collection of characters
* It stared with character and ends with null.
* The end of the string is null due to identify the end of the string.

Initialization:

char Name[6]={'H', 'e', 'l' .'l' ,'o'};

char Name[6]="Hello";

char Greet[]="Hello world";

char Name[10][50];

//having 10 rows and do not exceeds 50 names.

* Copy a string – strcpy, strncpy
* Concatenate two strings – strcat, strncat

If source and destinated string both has same, then we can’t concate. The destination string should be more.

* Compare two strings – strcmp, strncmp

If both strings are same, it gives ‘0’ otherwise ‘1’.

While comparing we should use, >, <, =.

* memset – We want set to 0 or null we use memset in strings and structures.
* memccpy – It is used to copy the memory.
* String length – strlen()
* strerror – we have any error in string we use this.
* strsep
* strstr()- It finds the first occurrence of the substring.
* Strcasestr() – similar to strstr() but it ignores the case of both arguments.
* Strchr() – It finds the first occurrence of the character in the string.
* Strtok() – extract tokens from strings.

User defined datatype:

1. Structure
2. Unions
3. Enums

Structure:

Int a1,a2;

Strucr square s1,s2 ,s3,sq[10];

Struct square

{

Int len;

Int breadth;

}s4,s5,s6,s[10];

typdef struct square SQR;

SQR s7,s8,s9;

Typedef struct Square

{

Int len;

Len breadth;

}SQR1;

Two ways to

1. . => static var = nameVar.member name
2. -> =>ptr var = namevar => membername

SQR1 \*ptr;

ptr ->len;