**Strings :**

* **array of characters which is ending with null character**
* **string is not a datatype in c**
* Strings are used for storing text/characters.
* use double quotes (" ").
* format specifier **%s**
* **digits are not retured as strings**

char greetings[] = "Hello World!";  
printf("%s", greetings);

**Access Strings :**

char greetings[] = "Hello World!";  
printf("%c", greetings[0]);

* **%c format specifier** to print a **single character**

**Modify Strings :**

char greetings[] = "Hello World!";  
greetings[0] = 'J';  
printf("%s", greetings);  
// Outputs Jello World! instead of Hello World!

* **gets :**

char name[30];

printf(“enter name :”);

gets(name);

printf(“%s”,name);

* printf(“%s.5s”,name)
* puts(name) -----will automatically print in next line
* **length of string : strlen**
* **copy : strcpy**
* **strtok**
* **strchar**
* **strstr**
* A screen shot of a computer code

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* **program to concatenate two strings**

* **strcat , strncat**
* **A screen shot of a computer

  Description automatically generated**
* **strncat(s2,s1,3) --chinthalapati te**
* **A blue background with white text

  Description automatically generated**
* **Program to compare two strings ?**

**( strcmp strncmp )**

**Strcmp(s2,s1)**

**User Defined Datatypes**

* Used to declare multiple variables of our own. Multiple Datatypes together

We want to create multiple of that type

1. Structures

2. Unions

3. Enum

**Structure Padding:**

* In memory pages let us take an example in one page theres only 6 bytes and we need to to allocate 8 bytes(4char+4 float). Then the first 4 are in the page and leaves the 2 bytes and moves to next page. And then when we do the length we get it as 10 bytes(including the left)
* So to avoid structure padding
* We need to define all char at once and then all number types at once

**Files :**

* A collection of logically related information.

**Types :**

Sequential file

Random access file

File Access :

* This structure to which the file pointer point to,is of type FILE.
* Declaration needed:

File \*fp;

FILE \*fopen(char\*name,char\*mode);

fp=fopen(“file name”.”mode”);

fgetc, fgets, getc, getchar, ungetc - input of characters and

strings

read the contents from the database the record of the employees

101|Amit Kumar|M|8888|100000

* **Seek :**
* **fread**
* **fwrite**