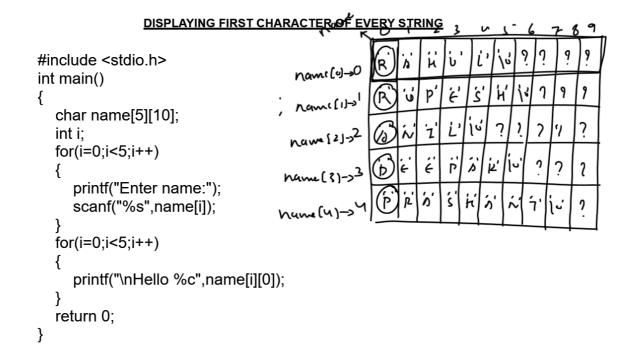
## **DOUBLE DIMENSIONAL CHARACTER ARRAY**

SYNTAX:
=======
<data type> <array\_name>[ int const ] [ int const ];

ex char name [5][10];

int mains)	raver	0	١	2	3	ι	^ \	-	6	71	3 9
•	(هرد(ه)) مرد	 R	۸.	'n	ն՝	į	, ',	3/9	j	9	9
d char name [5][10]; n	مسردایا	Ŕ	<b>G</b> .	pʻ	Ή,	's	H	14	1	9	9
,	Γ	 /ð	~	'1'	Ľ,	أنأ	?	<u>                                     </u>	7	7	?
(a (i=0; i 25; i 7+)	me(3)->3	Þ.,	, , E	Ë	ρ̈́	آھ	<u>i</u> 2'	(v'	?	?	2
U & print ("[ule name:"); nun	رس <sub>ا~</sub> ه	ج.	Γ.'	'n'	ś	hi	<sub>ا</sub> رک	<del>~</del>	<b>1</b>	انا	?
int (;  for (i = 0; i \sigma 5; i \ta +)  for (i = 0; i \sigma 5; i \ta +)  Scan ("-1.5", nam (i]);  Ja(i = 0; i \sigma 5; i \ta +)  for in h (" \n Hello 1.5", nam  rel.	·(iI);				•	•					
rehun o											



## TRAVERSING EVERY ROW OF A 2D CHARACTER ARRAY

```
#include <stdio.h>
int main()
{
    char name[5][10];
    int i,j;
    for(i=0;i<5;i++)
    {
        printf("Enter name:");
        scanf("%s",name[i]);
    }
    for(i=0;i<5;i++)
    {
        printf("Hello ");
        for(j=0;name[i][j]!='\0';j++)
            printf("%c",name[i][j]);
        printf("\n");
    }
    return 0;
}</pre>
```

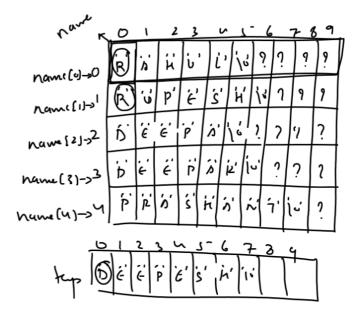
WAP to accept 5 names from the user , store them in a 2D character array and print the length of each name using appropriate string function

```
#include <stdio.h>
#include <string.h>
int main()
  char name[5][10];
  int i,x;
  for(i=0;i<5;i++)
  {
     printf("Enter name:");
     scanf("%s",name[i]);
  for(i=0;i<5;i++)
  {
     x=strlen(name[i]);
     printf("\nName is %s,Length is %d",name[i],x);
  }
  return 0;
}
```

Rewrite the previous code but without using strlen()

```
#include <stdio.h>
int main()
{
  char name[5][10];
                                                   M. jurgh.
  int i,j;
  for(i=0;i<5;i++)
  {
     printf("Enter name:");
     scanf("%s",name[i]);
  }
  for(i=0;i<5;i++)
  {
     for(j=0;name[i][j]!='\0';j++);
        printf("\nName is %s,Length is %d",name[i],j);
  }
  return 0;
}
```

WAP to accept 5 names from the user, store them in a 2D character array and again ask the user to input a name. Now search and print the position of this name in 2D array.



```
1-612345
#include <stdio.h>
int main()
                                            for(i=0;i<5;i++)
{
  char name[5][10],temp[10];
                                                x=strcmp(name[i],temp);
  int i,x;
                                                if(x==0)
  for(i=0;i<5;i++)
                                                  printf("Name found at %d pos",i+1);
     printf("Enter name:");
                                                 _break;
    scanf("%s",name[i]);
                                                 }
  printf("Enter name to search:");
  scanf("%s",temp);
                                           if(x!=0)
                                              printf("Name not found!");
                                            return 0;
                                            }
```