TRAVERSING A CHARACTER ARRAY

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

WAP to accept a string from the user and print its length

```
SAMPLE OUTPUT
                                    #include <stdio.h>
                                    int main()
=========
                                    {
Enter a string:
                                       char str[15];
BHOPAL
                                       int i,x=0;
Length is 6
                                       printf("Enter a string:");
                                       scanf("%s",str);
       1=0+23456
x=0+23456
                                       for(i=0;str[i]!='\0';i++)
                                       printf("Length is %d"(x);
                                       return 0;
                                    }
```

```
#include <stdio.h>
SAMPLE OUTPUT
                                   int main()
=========
Enter a string:
                                      char str[15];
BHOPAL
                                      int i;
Length is 6
                                      printf("Enter a string:");
                                      scanf("%s",str);
                                      for(i=0;str[i]!='\0';i++);**
        1-0+23456
                                      printf("Length is %d",i);
                                      return 0;
                                   }
```

WAP to accept a string from the user and print its REVERSE

SAMPLE OUTPUT

Enter a string: RAMA AMAR

SAMPLE OUTPUT

=========

Enter a string: RAHUL

LUHAR

DRAWBACK OF THE FUNCTION scanf() W.R.T STRINGS

The function scanf() cannot accept MULTI WORD STRINGS. Solution: Use another function called gets()

```
#include <stdio.h>
                                                  SAMPLE OUTPUT
int main()
{
                                                  ==========
  char str[15];
                                                  Enter a string: Abhay Rai
  printf("Enter your name:");
                                                  Hello Abhay Rai
  gets(str);
  printf("\nHello %s",str);
  return 0;
}
```

WAP to accept a string from the user and print it by CONVERTING all UIPPER CASE

LETTERS to LOWER CASE and vice versa

```
SAMPLE OUTPUT
=========
Enter a string: Abhay Rai
Hello aBHAY rAI
```

```
#include <stdio.h>
int main()
  char str[15];
  int i;
  printf("Enter your name:");
  gets(str);
  for(i=0;str[i]!='\0';i++)
     if(str[i] > = 65 \&\& str[i] < = 90)
           str[i]=str[i]+32;
    else if(str[i]>=97 && str[i]<=122)
           str[i]=str[i]-32;
  printf("Hello %s",str);
  return 0;
```

STRING FUNCTIONS

1. strlen(): Accepts a string and returns its length

```
#include <stdio.h>
#include <string.h>
int main()

char str[15];
int x;
printf("Enter your name:");
gets(str);

x=strlen(str);
printf("Length of %s is %d",str,x);

return 0;
```