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Write program:

- 1. Takes a string input from the user
- Implement a reverse function by,
- i. Passing the string (that was entered by the user) as a parameter by reference.
- ii. Reverse this string.
- 3. Print the string in the main function after calling the function reverse you created.

Make void Function name reverse (Void means this function not return any things).

```
char s[100],r[100];
  printf(" Enter a string to reverse\n");
  gets(s);
make varaible char s[100] ( array of char to make
string ) and r[100] (to store on this array the reverse
string)
print on screan "Enter a string to reverse"
using gets function is used to scan or read a line of
text.
OR
(using scanf("%[^\n]%*c", s); to scan or read a line of
text.)
OR
using fgets(s, 100, stdin); to scan or read a line of
text.) (100 means number of array)
```

```
printf("\n Before Reverse String in Upper Case :
%s\n",strupr(s));
print on screan "Before Reverse String in Upper Case: " to
print the string in Upper case Before Reverse.
(strupr()function is a built-in function in C and is defined
in string.h header file.Converts string to uppercase).
   printf("\n Before Reverse String in Lower Case :
%s\n",strlwr(s));
print on screan "Before Reverse String in Upper Case: " to
```

print the string in Lower case Before Reverse.

(strlwr()function is a built-in function in C and is defined instring.h header file.Converts string to lowercase)

```
for(int i=0;i<len;i++)
   r[end]=s[i];
 end--;
```

store on array r[end](end mean the last index) the first index of input string then decrement the end index by 1.

```
printf("\n After Reverse String in Upper Case : %s\n", strupr(r));
    printf("\n After Reverse String in Lower Case : %s\n",strlwr(r));
    printf ( "\n string length = %d \n" , len ) ;
    /*strlwr()function is a built-in function in C and is defined in stri
 strupr() function is a built-in function in C and is defined in string.h h
strlen() function is a built-in function in C and is defined in string.h h
- }
int main()
    reverse();
    return 0;
printf("\n Reverse of the string: " %s " \n", s);
print on screen "Reverse of the string: " to print the
reverse of string.
printf("\n After Reverse String in Upper Case :
%s\n",strupr(s));
print on screan "After Reverse String in Upper Case:
" toprint the string in Upper case After Reverse.
   printf("\n After Reverse String in Lower Case :
%s\n",strlwr(s));
print on screan "After Reverse String in Lower Case:
 " toprint the string in Lower case After Reverse.
int len=strlen(s);
make varaible int name len and make len = strlen(s)
(strlen()function is a built-in function in C and is defined
instring.h header file. Gives the length of string)
printf ( "\n string length = %d \n" , len );
```

printf("\n Reverse of the string: '' %s '' \n", r);

```
print on screan " string length = " to print the length
  of array.

int main()
{
    reverse();
    return 0;
}
In the main function call the reverse function .
```

Photo of solution Of Code

```
Enter a string to reverse
Samsung Innovation Campus

Before Reverse String in Upper Case: SAMSUNG INNOVATION CAMPUS

Before Reverse String in Lower Case: samsung innovation campus

Reverse of the string: '' supmac noitavonni gnusmas ''

After Reverse String in Upper Case: SUPMAC NOITAVONNI GNUSMAS

After Reverse String in Lower Case: supmac noitavonni gnusmas

string length = 25

Process returned 0 (0x0) execution time: 32.770 s

Press any key to continue.
```