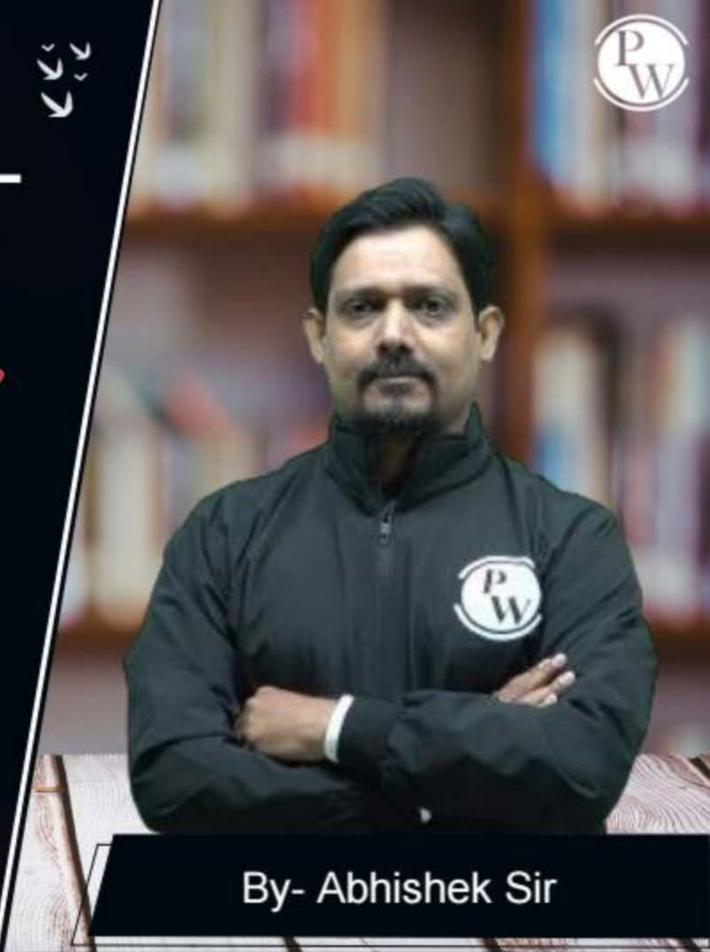
Computer Science & IT

**C** Programming



String in C programming

Lecture No. 02



# **Recap of Previous Lecture**









**Topic** 

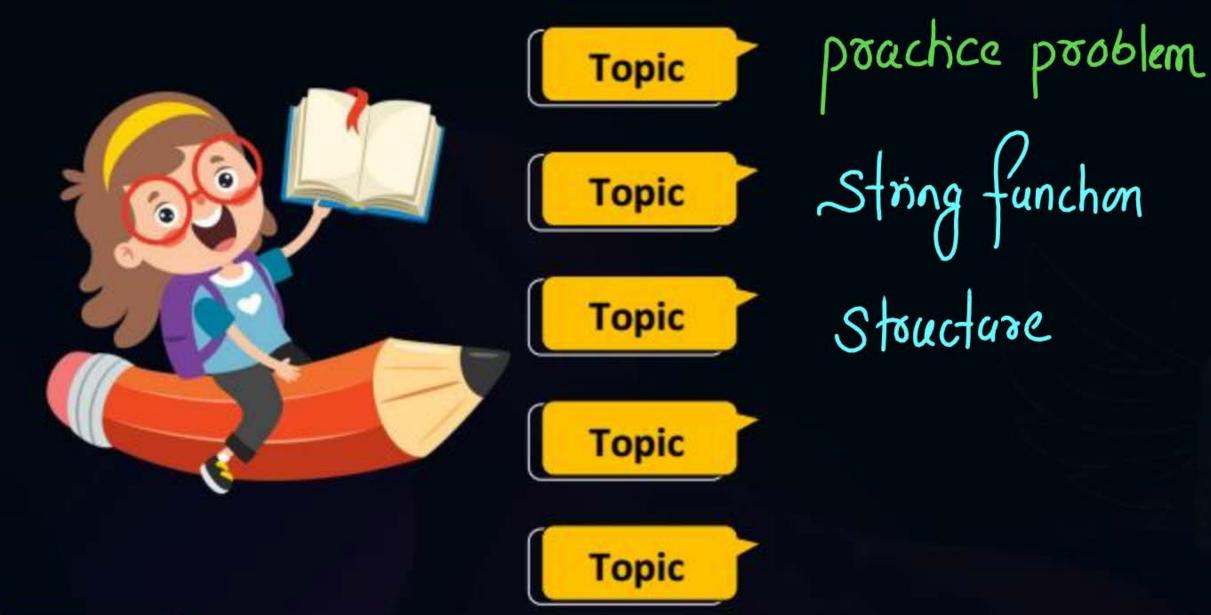
Slide













### Strlen



```
* (ch+1
= ch[1]
#include <stdio.h>
                              arax
int main()
    char *ch[2]) = { "parakram", "vijay"}
    printf("%s\n", *ch); 100 pavakvam
                                            204
                                      200
    printf("%s\n", *ch+1); arakvam
    printf("%s\n", *ch+8);
                                       100
    printf("%s\n", *(ch+1)); VI19X
    printf("%c\n",ch[1][3]);
    return 0; (*(ch+1)+3
                                                               10
                        105
                                         109
```



### Strlen



```
include <stdio.h>
int main(){
    char *ch[3] =
                               "vijay", "shreshth" };
                   'parakram",
   printf("%u\n", ch[0]); 100
   printf("%u\n", ch[1]);
                            109~
    printf("%u\n", ch[2]);
    return 0;
                        10
                    m
              0
                    0
                                                                  2 2
                        0
                                                           9
```



# String Function





### Strlen





### Strlen



```
* Unsigned value is return
```



## String



```
#include <stdio.h>
                                 Char a [10] = "string",
#include<string.h>
                                   ponntf ("/. lu", stolen (a)); - 6
int main() {
    char a[4] = "string";
                                   pnnlf ("/lu", stolen ("stoing"); -6
    printf("%lu", strlen(a));
    return 0;
        worning + 4 output
```



### String



```
#include <stdio.h>
#include<string.h>
#include <stdio.h>
int main(void) {
  unsigned int plus one = 1;
  int minus one = -1;
  if (plus one < minus one)
    printf("1 < -1");
  else
    printf("boring");
  return 0;
```



### **GATE 2004**



104 105 106

#Q Consider the following C program segment:

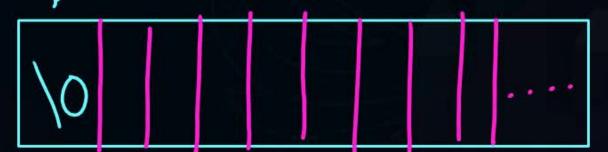
 $\rightarrow$  (S+6) The output of the program is

- (a) gnirts
- (b) string

100 101 102 103

- (c) gnirt
- (d) no output is printed





S[6]



### **GATE 2011**

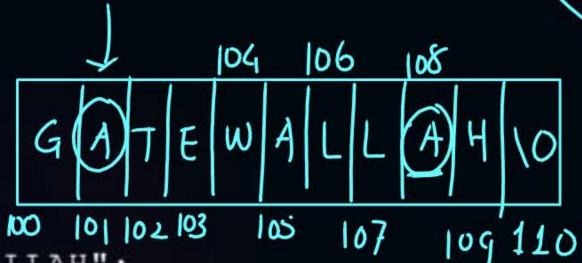


# Q What does the following fragment of C-program print?

#include <stdio.h>

#include<string.h>

int main(){



(A) Same string

- (B) Different string
- (C) TE WALLAH
- (D) WALLAH

```
char c[]="GATEWALLAH":

char *p = c;

printf ("%s", p+ (p [8]) - p [1])

\rho + \rho[\delta] - \rho[l]

|00+66-66
```



#### **GATE 2004**



```
a[i]: * (a+i): * (1+a)
#Q Consider the following C Program.
#include <stdio.h>
#include< string.h>
int main ()
      char* c = "GATECSIT2017";
                                   P[2] - P(6) - 1
      char* p = c;
                   (int) strlen (c+2[p]-6[p]-1));
      printf("%d",
      return 0;
The output of the program is
                                                             100+10
```

ABCDEFGHI
65 70 73

J K L M N O P Q R ST
74 75 76 77 78 79 80 81 82 83 84

$$\frac{X}{Y}$$

While 
$$(8) = 4$$
  $7 - 2 = 5$   $9 = 9 + 1$   $1$   $6 - 2 = 3$   $9 = 2$ 

$$\frac{7}{2} \left( \frac{2}{2} \right)$$



# Strcpy



Destination Const char \*ptr)

Destination

Const char \*ptr)

Const char \*ptr)

Const char \*ptr)

Char a[10];

a = "parakram",

Assign

Not allow



# Strcpy



```
strcpy (char *destination) const char *ptr)

Char a [10],

Stocpy (a, 'parakram'),
```



# Strcpy



```
Copy the character from source to destination char a[100]; strcpy(a, "hello World"); printf("%s", a);
```



## **String**



```
NULL character will copy
#include <stdio.h>
                                 No of character printed
#include<string.h>
int main() {
   char ch[20] ="parakram";
   strcpy(ch; "vijay");
                          V179410
   printf("%s", ch);
   return 0;
                              109
                              10/10.
                kra m
           na
```





$$S_1 > S_2$$
, posstive value return 1  
 $S_1 = S_2$ , 0 will be pronted 0  
 $S_1 < S_2$  Negative value return -1





```
chdude/stringh>
# unclude < stdioh>
int main() {
  char *s1 = "abc",
 char + Sz = "abc",
  point ("%d', stocmp(S1, S2)), - this will point 0
  return 0:
```





```
# choludexstringn>
# uncludexstdion>
 int main() {
  char *s1 = 'abc'
  char + Sz = "abd"
   pont ("%d", stocmp(S1, S2))
  return 0; pront-1
```

Each Index posshon ASCII value is compare ASCII valu





```
# choludexstringn>
# uncludexstdion>
 int main() {
  Char * s1 = "b",
  char + Sz = "abd"
                                          S1>S2
   pont ("%d", stocmp(S1, S2))
  return 0;
                          It will print
```





# challex string h>
# challex string h>
# challex string h>
# challex string h>
(int main c) {

Char \*s\_1 = "B",

Char \*s\_2 = "abd"

prontf ("%d", stramp(
$$S_1$$
,  $S_2$ ))

Setum 0;

(66-97) = (-31)



### strcat



char \*strcat(char \*dest, const char \*src);
Stoing (oncabination

char pointer return



#### strcat



```
#include <stdio.h>
                                    ch will update
#include<string.h>
int main() {
                               (2) Null pointes for Destination
   char ch[20] ="parakram";
   char *ch1 ="vijay";
                                          Weownthen by fret characted
   printf("%s", strcat(ch,ch1));
                                          pointer returned
                      k & am
```



### 2 mins Summary



Topic

Stolen, Storpy

Topic

Strcmp, streat

Topic

**Topic** 

# THANK - YOU

