Computer Science & IT

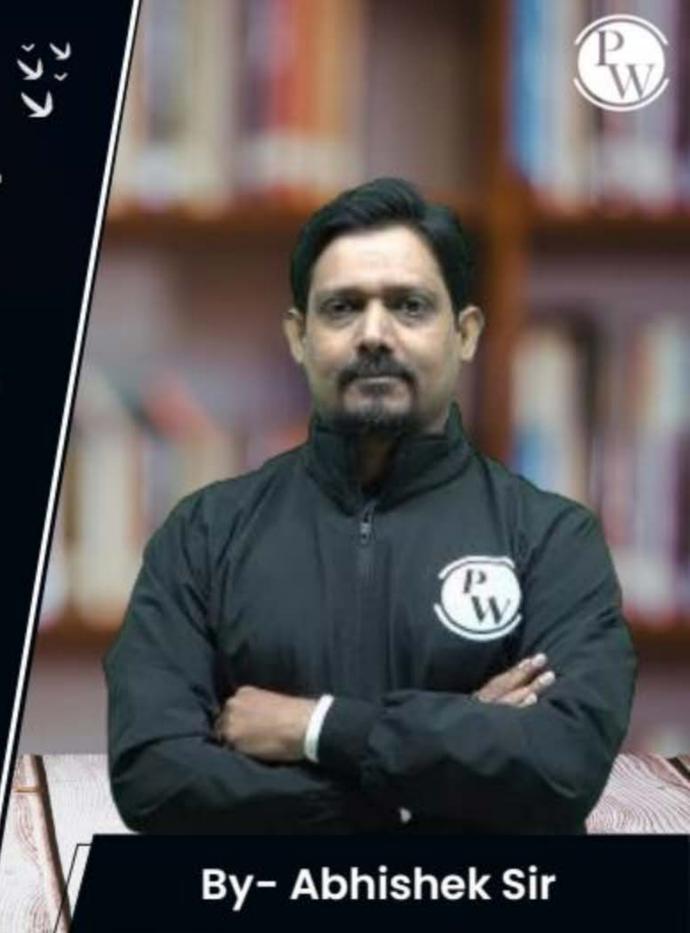
**C** Programming





String

Lecture No. 01



























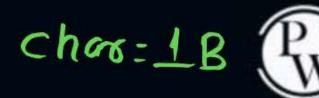
String
Null character
Print string
Two ways to declaration of string
Array of string
How to print array of string
Array of string using character pointer





clouble quotes





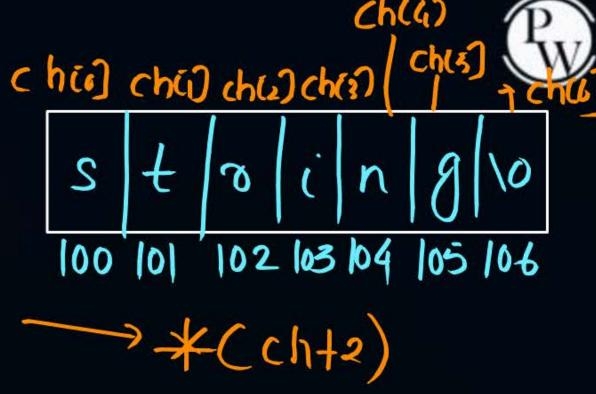


```
point ("%s", ch); // stoing
pointf ("%s', ch+2); // roing
chtti // Error Constant being Modified
```

10 - NULL character ASCII value

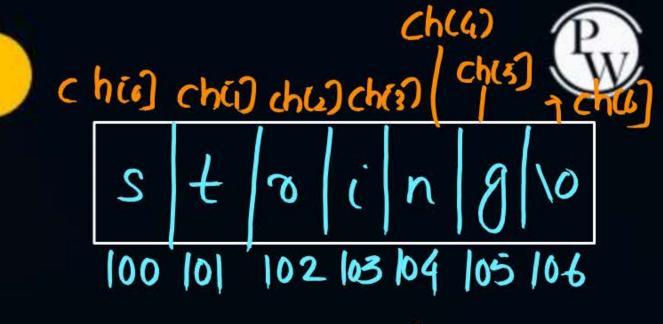


char chi]="string";
point ("%c". ch(2));





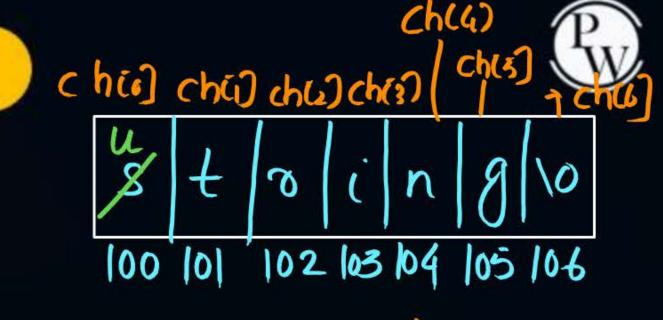
chor ch[] = "string";



101



chor ch[] = "string";





chie chie chie chie

100 101 102 103 104 105 106









output: No output





Second way to declarge 2 initialize the string is using character pointer.

String stored in ROM





character oracy string is mutable character printer string is immutable





String maintained with character pointers allow to modify

char \* ptr = 'string';

pho[i]='p';
pointf("0165", pto); // No output

bare Address

pto++; //allowed
pnn+f('o/os', pto); //toing













# include < stoing.h> Stolen () function take const character painter

octuon unsigned value representing length of string

\* Donot count the NULL characters

Chor ch[]= 'string';

ponntf ("%", stolen(ch));// 6
ponntf ("%", stolen(chts));// 3



#### Question =



```
#include<stdio.h>
int main(int argc, char *argv[]){
char a = 'P';
char b = 'x';
char c = (a \& b) + '*';
char d = (a | b) - '-';
char e = (a ^ b) + '+';
printf("%c %c %c\n", c, d, e);
return 0;
```

*	+	-
42	43	45

- (A) z K S
- (B) 122 75 83
- (C) \* +
- (D) Px +

ASCII encoding for relevant characters is given below Slide





```
#Q Consider the following C program segment:
```

```
char p [20];
char *s = "string";
int length = strlen(s);
for (i=0; i<length; i++)
       p[i] = s[length - i];
printf("%s",p)
```

The output of the program is

- (a) gnirts
- (b) string

- 5 t 8 i n 9 10
- (c) gnirt S[6-0] S[6]
- (d) no output is printed





#### Question =



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

P 100

(A) GATE2011

(e) 2011

(D) 011





```
#Q Consider the following C Program.
#include <stdio.h>
#include< string.h>
int main () {
     char* c = "GATECSIT2017";
     char* p = c;
     printf("%d", (int) strlen (c+2[p]-6[p]-1));
     return 0;
The output of the program is
                                                            = 100+84-73-1
                    100+2[p]-6[p]-1
                     100+p(2)-p26)-1= 100+'T'-I'-1
```

L. me/Abhisheksharmapw





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





HW

```
int main () {
Consider the following C program:
#include<stdio.h>
                                        char *strl = "Hi", *str2 = "Bye";
void fun1(char *s1, char *s2){
                                        fun1(str1, str2);
       char *tmp;
                                        printf("%s %s ", str1, str2);
       tmp = s1;
                                        fun2(&str1, &str2);
       s1 = s2;
                                        printf("%s %s", str1, str2);
       s2 = tmp;
                                        return 0;
void fun2(char **s1, char **s2){
       char *tmp;
                                        (A) Hi Bye Bye Hi
       tmp = *s1;
       *s1 = *s2;
                                        (B) Hi Bye Hi Bye
       *s2 = tmp;
                                        (C) Bye Hi Hi Bye
                                        (D) Bye Hi Bye Hi
```





If abc(s) is called with a null-terminated string s of length n characters (not counting the null ('\0') character), how many characters will be printed by abc(s)?



#### 2 mins Summary



Topic

String using char arough

Topic

Stong using char pointer

Topic

Stolenc).

Topic

Topic

# THANK - YOU

