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## C-65 → C Program to read & print String

Note: ①

```
① char fname[30];  
    printf("Enter name:");  
    scanf("%s", fname);  
    printf("%s", fname);
```

O/P

Enter name: Hello world  
Hello.

```
② char fname[30], lastname[30];  
    printf("Enter name:");  
    scanf("%s %s", fname, lastname);  
    printf("%s %s", fname, lastname);
```

↓ O/P.

Enter name: Hello world  
Hello world

Note ②

```
char name[30];  
printf("Enter name:");  
gets(name);  
printf("%s", name);
```

O/P

Enter name: Hai .Hai  
Hello How are you and  
family.

Hai- Hai- - - -

\* Here, string array size is 30; but we read more than 30 and it also prints beyond the limit which is in memory and hence there is buffer overflow problem.

\* Both with scanf() and gets()

Notu ③

```
Char name[30];
printf("Enter name:");
gets(name);
printf("%s", name);
puts(name);
puts(name);
puts(name);
```

Enter name:

Hai Hai Hello

Hai Hai... Hai Hai

Hai Hai Hello

Hai Hai Hello.

\* printf will don't have new line but;  
puts() will have default new line  
when we press ENTER.

Notu ④

```
Char name[30];
printf("Enter name:");
gets(name);
printf("%5s", name);
printf("%10.5s", name);
puts(name);
puts(name);
```

Enter name:

Halloween Halloween

Hallo

-----Hallo

Halloween Halloween

Halloween Halloween.

0 1 2 3 4 5 6 7

J a y a n t h i

Note ⑤

```
Char name[30];
printf("Enter name:");
scanf("%5s", name);
printf("%s", name);
printf("%10.5s", name);
puts(name);
```

Enter name:

Jayanthi

Jayan

-----Jayan

Jayan.

printf("%s", &name[2]); → yanthi

printf("%c", &name[2]); → y