

## C-64 ⇒ Strings in C - Part 3

(printf() & puts() function in C)

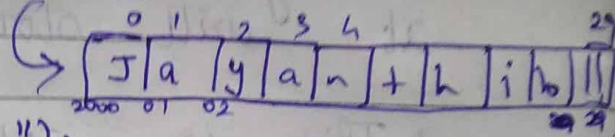
Char name[30];

printf("Enter name:");

scanf("%s", name);

printf("%s", name);

name [2000]



o/p

Enter name: Jayanthi  
Jayanthi

printf("%5s", name);

o/p

Enter name: Jayanthi  
Jayanthi

printf("%10s", name);

#

Enter name: Jayanthi

----- Jayanthi  
10 white spaces      5 character

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

Enter name: Jayanthi  
Jayanthi space

\* puts() will put a empty space at end of string and new line is inbuilt within put().

\* But in printf("%s\n", name) new line is not inbuilt, we have to specify "\n".

Correct Eg: printf("%s", name);

Correct Same Eg: printf("%s", &name);

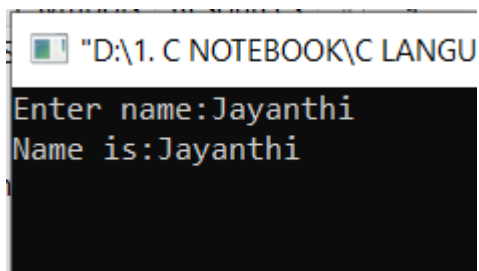
Correct Eg: printf("%s", name[2]); ⇒ o/p  
yanthi

Correct Eg: printf("%c", c[2]); ⇒ o/p  
y

wrong Eg: printf("%s", name[2]); ⇒ Error  
↓  
[No address]

## CODE 1:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** PRINT STRING USING printf() **/
4  int main()
5  {
6      char name[30];
7      printf("Enter name:");
8      scanf("%s", name);
9      printf("Name is:%s", name);
10     getch();
11 }
12
```



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Enter name:Jayanthi

Name is:Jayanthi

## CODE 2:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** PRINT STRING USING printf() **/
4  int main()
5  {
6      char name[30];
7      printf("Enter name:");
8      scanf("%s", name);
9      printf("Name is:%.5s", name);
10     /** prints only 5 characters **/
11     getch();
12 }
13
```

```
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Enter name:Jayanthi
Name is:Jayan
```

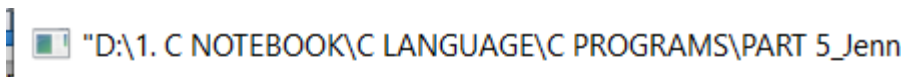
### CODE 3:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** PRINT STRING USING printf() **/
4  int main()
5  {
6      char name[30];
7      printf("Enter name:");
8      scanf("%s", name);
9      printf("Name is:%10.5s", name);
10     /** prints 10 blank spaces and 5 characters **/
11     getch();
12 }
13
```

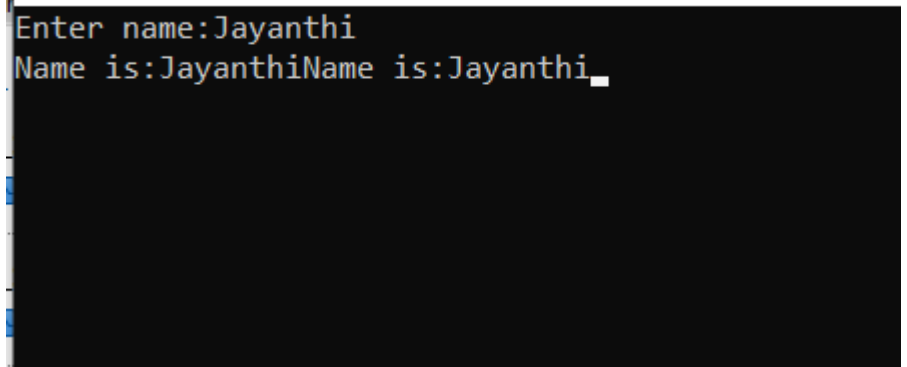
```
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Enter name:Jayanthi
Name is:      Jayan_
```

## CODE 4:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** PRINT STRING USING puts() **/
4  /** puts() has inbuilt new line **/
5  int main()
6  {
7      char name[30];
8      printf("Enter name:");
9      scanf("%s", name);
10     printf("Name is:%s", name);
11     printf("Name is:%s", name);
12
13     getch();
14 }
15
16
```



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```
Enter name:Jayanthi
Name is:JayanthiName is:Jayanthi_
```



## CODE 5:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** PRINT STRING USING puts() **/
4  /** puts() has inbuilt new line **/
5  int main()
6  {
7      char name[30];
8      printf("Enter name:");
9      scanf("%s", name);
10     //printf("Name is:%s", name);
11     //printf("Name is:%s", name);
12     puts(name);
13     puts(name);
14
15     getch();
16 }
17
18
```

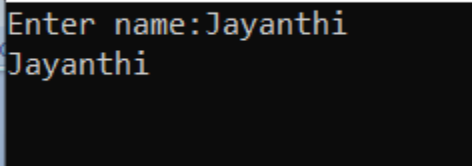
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```
Enter name:Jayanthi
Jayanthi
Jayanthi
```

## CODE 6:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** printf() in strings **/
4  int main()
5  {
6      char name[30];
7      printf("Enter name:");
8      scanf("%s", name);
9      printf("%s", &name); /** Both same -> printf("%s", name); **/
10
11     getch();
12 }
13
```

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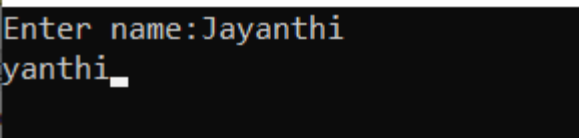


```
Enter name:Jayanthi
Jayanthi
```

## CODE 7:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** printf() in strings **/
4  int main()
5  {
6      char name[30];
7      printf("Enter name:");
8      scanf("%s", name);
9      printf("%s", &name[2]);
10     /** It will printf from index address name[2] till before null character **/
11     /** We read string Jayanthi and prints from yanthi **/
12     getch();
13 }
14
```

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```
Enter name:Jayanthi
yanthi_
```

## CODE 8:

```
1  #include <stdio.h>
2  #include <stdlib.h>
3  /** printf() in strings **/
4  int main()
5  {
6      char name[30];
7      printf("Enter name:");
8      scanf("%s",name);
9      //printf("%s",&name[2]);
10     /** It will print from index address name[2] till before null character here we
11     read string Jayanthi and prints from yanthi **/
12     //printf("%s",name[2]);
13     /** It will show no output because string format specifier needs address of index
14     2 to start from name[2], but here no (&) hence we get no output **/
15     printf("%c",name[2]);
16     /** This is character format specifier, single character no need (&),
17     hence it gives output for index name[2] **/
18
19     getch();
20 }
21
```

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Enter name:Jayanthi  
y