

Aim:

Write a **C** program to print the **pattern** using a character array.

Sample Input and Output:

```
Enter the string : SASI
S
SA
SAS
SASI
```

Source Code:

stringPattern.c

```
#include<stdio.h>
#include<string.h>
void main()
{
    char str[20],i=0,j,len;
    printf("Enter the string : ");
    scanf("%s",str);
    len=strlen(str);
    while(i<len)
    {
        for(j=0;j<=i;j++)
        {
            printf("%c",str[j]);
        }
        printf("\n");
        i++;
    }
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter the string : SASI
S
SA
SAS
SASI

Test Case - 2
User Output
Enter the string : CodeTantra
C

Co
Cod
Code
CodeT
CodeTa
CodeTan
CodeTant
CodeTantr
CodeTantra

Test Case - 3	
User Output	
Enter the string : SARASWATHI	
S	
SA	
SAR	
SARA	
SARAS	
SARASW	
SARASWA	
SARASWAT	
SARASWATH	
SARASWATHI	

Test Case - 4	
User Output	
Enter the string : RoboticTool	
R	
Ro	
Rob	
Robo	
Robot	
Roboti	
Robotic	
RoboticT	
RoboticTo	
RoboticToo	
RoboticTool	