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

```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