



**SIMATS**  
ENGINEERING



**SIMATS**  
Saveetha Institute of Medical And Technical Sciences  
(Declared as Deemed to be University under Section 3 of UGC Act 1956)

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**COURSE NAME : DATA STRUCTURES FOR MODERN COMPUTING SYSTEMS**

**COURSE CODE : CSA0302**

## **8. WRITE A C PROGRAM TO PERFORM FACTORIAL WITHOUT RECURSIVE FUNCTION**

### **C PROGRAMMING CODE:**

```
#include <stdio.h>
```

```
int main() {  
    int n, i, fact = 1;  
    printf("Enter a number: ");  
    scanf("%d", &n);  
    for (i = 1; i <= n; i++)  
        fact *= i;  
    printf("Factorial = %d", fact);  
    return 0;  
}
```

### **OUTPUT:**

main.c	Output
<pre>1  #include &lt;stdio.h&gt; 2 3- int main() { 4     int n, i, fact = 1; 5     printf("Enter a number: "); 6     scanf("%d", &amp;n); 7     for (i = 1; i &lt;= n; i++) 8         fact *= i; 9     printf("Factorial = %d", fact); 10    return 0; 11 } 12</pre>	<pre>Enter a number: 5 Factorial = 120  === Code Execution Successful ===</pre>