

```
1 PROGRAM FACTORIAL          00000010
2 THIS PROGRAM COMPUTES THE FACTORIAL OF A GIVEN NUMBER 00000020
3 INTEGER N, FACT, I          00000030
4 PRINT *, 'ENTER A POSITIVE INTEGER:' 00000040
5 READ *, N                   00000050
6 IF (N .LT. 0) THEN          00000060
7     PRINT *, 'INVALID INPUT! MUST BE POSITIVE.' 00000070
8     STOP                      00000080
9 ENDIF                      00000090
10 FACT = 1                   0000100
11 I = 1                      0000110
12 100 IF (I .GT. N) GOTO 200 0000120
13 FACT = FACT * I            0000130
14 I = I + 1                  0000140
15 GOTO 100                  0000150
16 200 PRINT 300, N, FACT      0000160
17 C OUTPUT THE RESULT        0000170
18 300 FORMAT(' FACTORIAL OF ', 0000180
19 &    I4,                    0000181
20 &    ' IS ',                0000182
21 &    I10)                   0000183
22 C END OF PROGRAM          0000190
23 END                      0000200
```