18.FACTORIAL

#include <stdio.h>

#include <stdlib.h>

long factorial(int n)

{

if (n == 0)

return 1;

else

return(n \* factorial(n-1));

}

int main()

{

int number;

long fact;

printf("Enter a number: ");

if (scanf("%d", &number) != 1) {

printf("Invalid input. Please enter a valid integer.\n");

exit(1);

}

fact = factorial(number);

printf("Factorial of %d is %ld\n", number, fact);

return 0;

}

OUTPUT

