Digital assignment 2

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QUESTION:

Write a c program to find the sum of the series 1! /1+2! /2+3! /3+4! /4+5! /5 ... n! /n by utilizing user defined recursive function? Get the value of n from the user. Do not use any storage classes. Without returning the calculated result from the function, display the result in main

Answer:

```
#include <stdio.h>
void sum_series(int n, float *sum);
int main() {
   int n;
   float sum = 0;
   printf("Enter n:\n");
   scanf("%d", &n);
   sum_series(n, &sum);
   printf("Sum of the series: %f\n", sum);
   return 0;
}
void sum_series(int n, float *sum) {
   if (n == 0) {
      return;
   }
   float term = 1;
   int i;
```

```
for (i = 1; i <= n; i++) {
    term *= i;
}
    *sum += term / n;
    sum_series(n-1, sum);
}</pre>
```