Digital assignment 2

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First 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:

```c
#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);
}
```