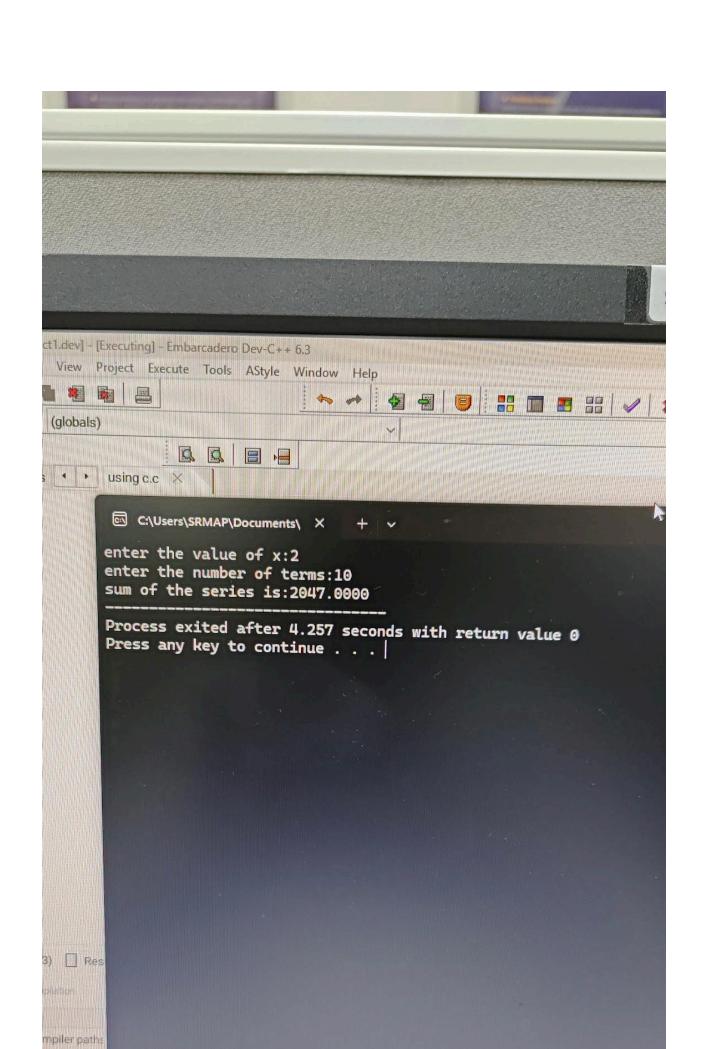
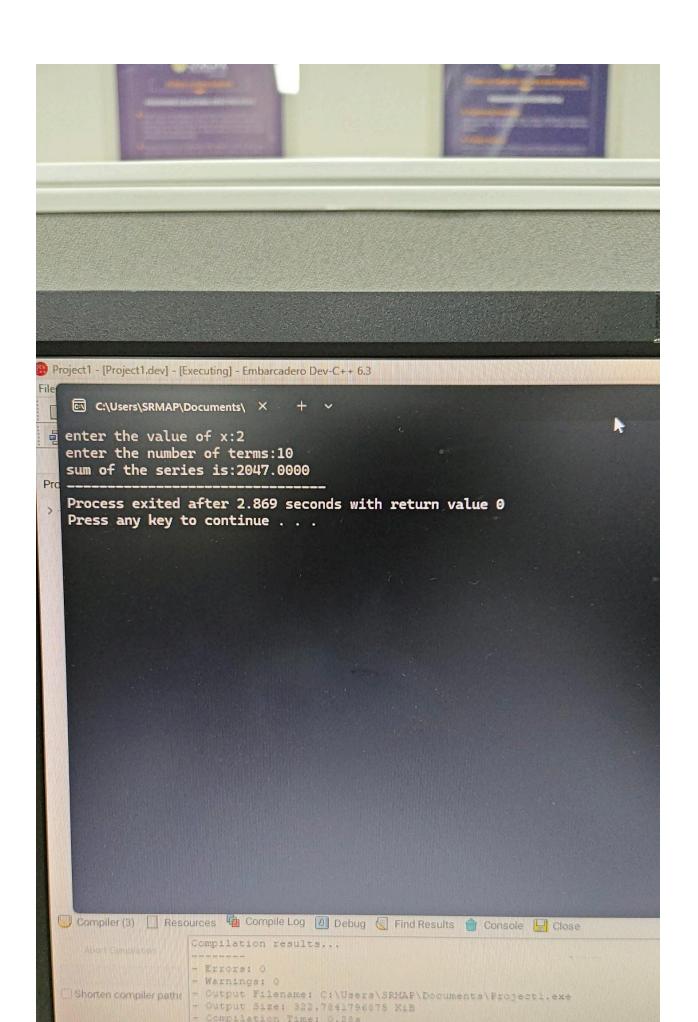
```
#include <stdio.h>
int main() {
  int n, i, j;
  float x, sum = 0.0, term;
  printf("Enter the value of X: ");
  scanf("%f", &x);
  printf("Enter the number of terms (n): ");
  scanf("%d", &n);
  for (i = 0; i \le n; i++) {
     term = 1.0;
     for (j = 0; j < i; j++) {
        term *= x;
     sum += term;
  }
  printf("Sum of the series is: %.4f\n", sum);
  return 0;
}
```



## Here as we can see the time complexity is more it is n square.

```
#include <stdio.h>
int main() {
  int n, i;
  float x, sum = 0.0, term = 1.0;
  printf("Enter the value of X: ");
  scanf("%f", &x);
  printf("Enter the number of terms (n): ");
  scanf("%d", &n);
  sum = 1.0;
  for (i = 1; i \le n; i++) {
     term *= x;
     sum += term;
  }
  printf("Sum of the series is: %.4f\n", sum);
  return 0;
}
```



As you can see here the time complexity is less as compere to the previous programme
the time complexity is n