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....Task-1....
#include <stdio.h>
int factorial(int n) {
if (n == 0) {
return 1;
} else {
return n * factorial(n - 1);
}
int main() {
int n = 10;
printf("Factorial of %d is %d", n, factorial(n));
return 0;
}
....Task-2....
#include <stdio.h>
int fibonacci(int n) {
if (n <= 1) {
return n;
} else {
return fibonacci(n - 1) + fibonacci(n - 2);
}
int main() {
int n = 10;
printf("Fibonacci number at position %d is %d", n, fibonacci(n));
return 0;
}
```

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....Task-3....
#include <stdio.h>
void printArray(int arr[], int size, int index) {
if (index == size) {
return;
printf("%d ", arr[index]);
printArray(arr, size, index + 1);
int main() {
int arr[] = {1, 2, 3, 4, 5,6,7,8,9,10};
int size = sizeof(arr) / sizeof(arr[0]);
printArray(arr, size, 0);
return 0;
}
....Task-4....
#include <stdio.h>
int power(int m, int n) {
if (n == 0) {
return 1;
} else {
return m * power(m, n - 1);
int main() {
int m = 10;
int n = 11;
printf("Power of %d raised to %d is %d\n", m, n, power(m, n));
return 0;
}
```