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**COURSE NAME: DATA STRUCTURES FOR MODERN COMPUTING SYSTEMS**

**COURSE CODE: CSA0302**

Experiment 5: Factorial with Recursion

CODE:

```
#include <stdio.h>
```

```
int fact(int n) {  
    if(n == 0 || n == 1)  
        return 1;  
    else  
        return n * fact(n - 1);  
}
```

```
int main() {  
    int n;  
    printf("Enter a number: ");  
    scanf("%d", &n);  
    printf("Factorial of %d = %d", n, fact(n));  
    return 0;  
}
```

OUTPUT:

```
Enter a number: 5  
Factorial of 5 = 120  
  
=== Code Execution Successful ===
```