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ROLL NO: 20P-0165 SECTION: BCS-4A

CODE:

```
#include <pthread.h>
#include <stdio.h>
#include <stdint.h>
int find factorial(int n) {
        return n * find factorial(n - 1);
    int result = find_factorial(*n);
    return (void *)(intptr t)result;
int main(void)
    pthread_t thread;
    void *result;
    int ret;
    int num = 0;
    pthread create(&thread, NULL, (void * ) &factorial, &num);
    ret = pthread join(thread, &result);
    if (ret) {
        fprintf(stderr, "pthread_join() failed\n");
    printf("Factorial Of the Given Number Is=> %ld\n", (intptr t)result);
    return 0;
```

OUTPUT

enstazao@enstazao-Victus-by-HP-Laptop-16-d0xxx:~/Operating_System_Lab/OS_Lab_11\$ gcc -pthread -o excercise-1 excercise-1.c enstazao@enstazao-Victus-by-HP-Laptop-16-d0xxx:~/Operating_System_Lab/OS_Lab_11\$./excercise-1 Factorial Of the Given Number Is=> 120 enstazao@enstazao-Victus-by-HP-Laptop-16-d0xxx:~/Operating_System_Lab/OS_Lab_11\$