

IP practicals

Q. Write a C program to find the factorial of number.

CODE:

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

```
int main()
```

```
{
```

```
    int A031_f=1,A031_i,A031_num;
```

```
    printf("Enter the number you want factorial of:");
```

```
    scanf("%d",&A031_num);
```

```
    for(A031_i=1;A031_i<=A031_num;A031_i++)
```

```
    {
```

```
        A031_f=A031_f*A031_i;
```

```
    }
```

```
    printf("The factorial of the entered number is:%d",A031_f);
```

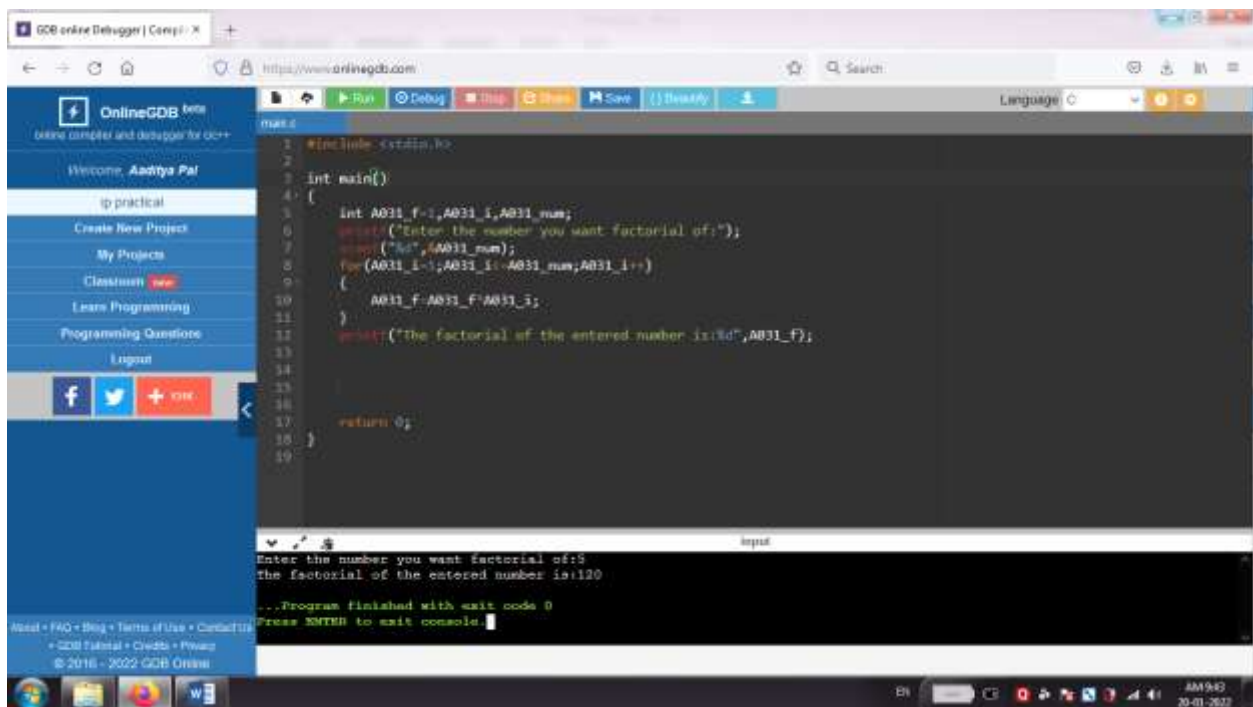
```
    return 0;
```

```
}
```

OUTPUT:

Enter the number you want factorial of:5

The factorial of the entered number is:120



The screenshot displays the OnlineGDB web interface. On the left, a sidebar contains navigation links such as 'Welcome, Aaditya Pal', 'ip practical', 'Create New Project', 'My Projects', 'Classroom', 'Learn Programming', 'Programming Questions', and 'Logout'. The main area features a code editor with a C program for calculating the factorial of a number. The code includes a header file, a main function, and a for loop to calculate the factorial. Below the code editor, an input field shows the number '5' entered, and the output field displays 'The factorial of the entered number is:120'. The status bar at the bottom indicates 'Program finished with exit code 0' and 'Press ENTER to exit console'.

```
1 #include <stdio.h>
2
3 int main()
4 {
5     int A031_f=1,A031_i,A031_num;
6     printf("Enter the number you want factorial of:");
7     scanf("%d",&A031_num);
8     for (A031_i=1;A031_i<=A031_num;A031_i++)
9     {
10         A031_f=A031_f*A031_i;
11     }
12     printf("The factorial of the entered number is:%d",A031_f);
13
14
15
16
17     return 0;
18 }
19
```

Input: 5

Output: Enter the number you want factorial of:5
The factorial of the entered number is:120

...Program finished with exit code 0
Press ENTER to exit console.