

## Logic Building and Problem Solving Assignment - 3

1. Write a C Program to find the Greatest Common Divisor using the functions.

### Expected Output

- 1) Enter the numbers : 150,35  
The Greatest Common Divisor of 150 and 35 is 5
- 2) Enter the numbers : 1026,405  
The Greatest Common Divisor of 1026 and 405 is 27
- 3) Enter the numbers : 83,240  
The Greatest Common Divisor of 83 and 240 is 1

2. Write a C Program to find the Absolute Value using the functions.

### Expected Output

- 1) Enter the number : 100  
The Absolute Value of 100 is 100
- 2) Enter the number : -200  
The Absolute Value of -200 is 200

3. Write a C program to check whether the given number is perfect number or not using functions  
A number is called as a perfect number if the sum of the factors of that number is equal to the same number.

### Expected Output

- 1) Enter the number : 6  
The number entered is Perfect Number
- 2) Enter the number : 24  
The number entered is not a Perfect Number

4. Write a C Program to find the factorial of a given number using functions.

### Expected Output

- 1) Enter the number : 7  
The Factorial of 7 is 5040
- 2) Enter the number : 0  
The Factorial of 0 is 1

5. Write a C Program to find the power of a given number using functions.

### Expected Output

- 1) Enter the base number : 2  
Enter the power number : 3  
 $2^3 = 8$
- 2) Enter the base number : 5  
Enter the power number : 0  
 $5^0 = 1$