

1. Write a lambda expression which accepts x and y numbers and return x^y .
2. Write a method that uses lambda expression to format a given string, where a space is inserted between each character of string. For ex., if input is "TEST", then expected output is "T E S T".
3. Write a method that uses lambda expression to accept username and password and return true or false. (**Note:** Use any custom values for username and password for authentication)
4. Write a method to calculate factorial of a number. Test this method using method reference feature.