Write the following method definitions:

1. addProduct()

First display category details to client, accept ProductName and category Id from client. Pass it as product object to addProduct method. After successful insertion productid and productName should be printed as a success message

1. getAllProducts()

Show all products to client, category wise.

1. getProductById()

show product details by accepting productid from client

1. delete product details from Product table by accepting productid from client.

Perform Exception Handling wherever necessary.