

You have recently learnt about a design pattern called the Factory Method pattern. For this scenario you are required to create an application which aligns with this pattern. Your task is to analyse the given scenario, decide which classes to create and then implement the scenario as a C# console application.

BikeCo builds bicycles. They currently offer three types of bicycles, a mountain bike, a racing bike and a tricycle. The bicycles are constructed in a workshop using the following steps:

- Create Frame
- Add Wheels
- Add Handles
- Add Brakes
- Add Pedals
- Add Seat

The currently have two workshops, one who builds steel frame bicycles and another which builds aluminium frame bicycles.

**Remember,** you need classes which will align with the following entities: ProductBase, ConcreteProduct, FactoryBase and ConcreteFactory. In your main program, ensure that you are able to create a bicycle from each type of workshop and that there are no “new” statements related to the creation of a bicycle in your main program.