Write a Program to create a class named as Product. Product has following attribute

Attribute details	Attribute Name
Unique identification number	id
Product Name	name
Product Price	price
Product Quantity	qty

Define following methods and constructor:

constructor to initialise Product id.

Method to get product details as Name, Price and Quantity
Method to display a product.

```
class Product:
    def __init__(self, product_id):
        self.product_id = product_id
        self.name = "" # Placeholder for product name
self.price = 0.0 # Placeholder for product price
        self.quantity = 0 # Placeholder for product quantity
   def get_product_details(self, name, price, quantity):
        self.name = name
        self.price = price
        self.quantity = quantity
  def display_product(self):
        print(f"Product ID: {self.product_id}")
        print(f"Product Name: {self.name}")
        print(f"Price: ${self.price}")
        print(f"Quantity: {self.quantity}")
product1 = Product(101)
product1.get_product_details("Laptop", 1200.99, 5)
product1.display_product()
```

Explanation

1. Constructor __init__:

- o Automatically called when an object is instantiated.
- Initializes the product_id along with placeholder attributes for name, price, and quantity.

2. get_product_details Method:

 Updates the name, price, and quantity attributes of the product.

3. display_product Method:

 Prints all product details, including ID, name, price, and quantity.