Task 3: function with a pub/sub trigger

Create a Pub/Sub-triggered function with the entry-point `restaurant_orders_pubsub` (see below for scaffolding code) that is triggered when a message is published to a Pub/Sub topic called `restaurant_orders_queue`.

> **Note**
>
> Although the entry-point has underscores in its name, generation 2 cloud functions don't allow underscores in cloud function names. You can name your cloud function freely when deploying/testing, for example to restaurant-orders-pubsub. The grader will assign a random name for your cloud function.

The function must:

- Read the JSON Base64 Encoded Pub/Sub message
- If the order is a **takeout** order, publish the JSON order to a Pub/Sub topic called `restaurant_takeout_orders`
- If the order is an **eat-in** order, publish the JSON order to a Pub/Sub topic called `restaurant_eat-in_orders`
- Ignore all other messages

For example when your functions receives this JSON string (which will be base64 encoded):

```
{
        "orderID": "c9880557-cb3d-49dd-8ab2-1a13b4f2b575",
        "type": "takeout",
        "items": [
                "fish",
                "chips"
        ]
}
```

Your function should send it to the Pub/Sub topic called `restaurant_takeout_orders`. Similarly if the `type` was **eat-in** you should send it to the Pub/Sub topic called `restaurant_eat-in_orders`

> **Note**
>
> To get started you can download a scaffolding application **here**.
>
> You'll find these resources useful:
>
> - Google Cloud Functions Pub/Sub

Your code must be successful deployed by our grader for points. Make sure you have added our grader to your project and tested deploying and running the function on your own account.