

# SALESFORCE ASSIGNMENT

Company X would like to start using Salesforce and they require a few changes to the system. The following tasks will detail out their requirements.

Please complete these as if you would for a customer.

## Task 1

We would like to build a convertor tool from Bitcoin to USD.

In order to get the most recent Bitcoin to USD value we're going to use an API.

A GET call can be made to <https://bitpay.com/api/rates/> which returns an array of currency conversions: E.g.

```
[
  {
    "code": "BTC", "name": "Bitcoin", "rate": 1
  },
  {
    "code": "USD", "name": "US Dollar", "rate": 11.31
  },
  {
    "code": "EUR",

    "name": "Eurozone Euro", "rate": 22.042443
  },
  {

    "code": "GBP",
    "name": "Pound Sterling", "rate": 23.855072
  },
  {
    "code": "JPY",
    "name": "Japanese Yen", "rate": 12.435911
  }, .....
]
```

You will need to:

Create a service class that will retrieve the value of Bitcoin vs A Currency and vice versa. Provide unit tests

## Task 2

Users at Company X need to compare currency values with Bitcoin. Build a page where a user can use our Bitcoin convertor class to compare an amount in Bitcoin to different currencies.

The page would have the following requirements:  
The user can enter a Bitcoin value or another currency

When a user changes the Bitcoin value, the other currency value would change automatically.

When the user would change the comparison currency value, the Bitcoin value would change automatically.

Make sure your code is covered by unit tests.

### Task 3

A manager wants to view a report on the most frequency requested comparisons. Build a report to show the comparisons made, by user, and the most frequency currency requests that user has made.