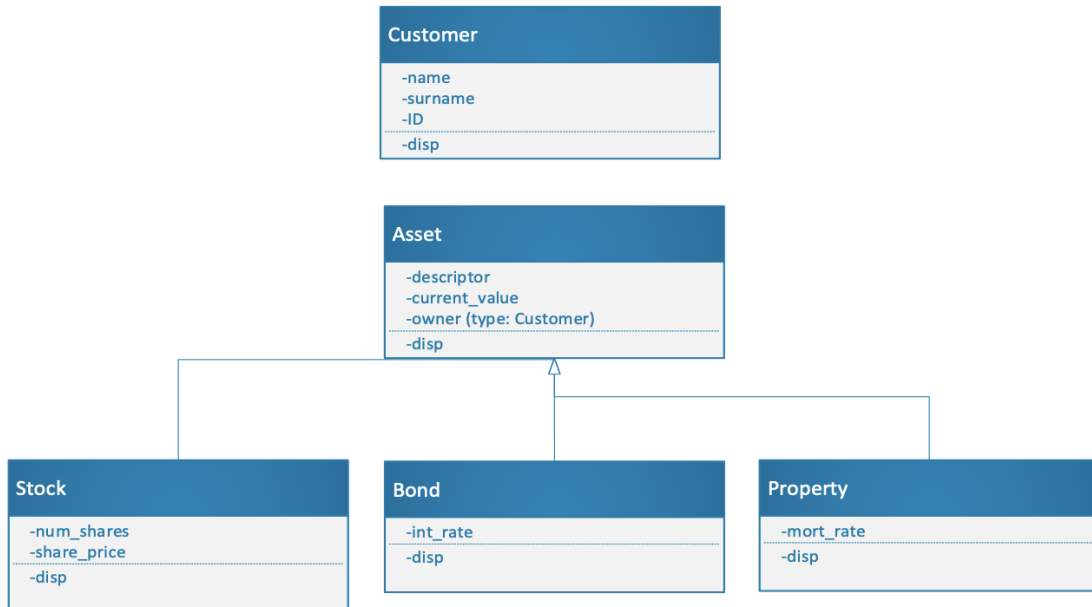


Exercise:

In this question, you are required to initialize a program for the Wall Inc., which is a consulting firm responsible for storing information of assets of the customers accurately. Architecture of the program is given in the UML diagram below.



Stock, Bond and Property could be classified as Asset, which has the properties: descriptor (string for asset name), current value and owner (owner is a Customer object). Therefore,

Stock, Bond and Property have the properties of Asset; i.e. they inherit Asset class. Stock has num_shares and share_price, Bond has int_rate and Property has mort_rate as properties.

Please follow the steps below.

a) Define given classes including inheritance relations.

b) Download the main script and DO NOT modify it. You are required to match your class definitions to main script and output format given below.

```
c1 =
Full name of the customer is  .
c2 =
Full name of the customer is John .
c3 =
Full name of the customer is Emily Rose.
c4 =
Full name of the customer is David Black.
c5 =
Full name of the customer is  .
c6 =
Full name of the customer is Harry Carpenter.
s1 =
Checking information for asset...
Undefined current value: 0.00
Undefined owner information
Full name of the customer is  .
Stock Information
Number of Shares: 0.00
Price of Shares: 0.00
s2 =
Checking information for asset...
VNET current value: 5.43
VNET owner information
Full name of the customer is John .
Stock Information
Number of Shares: 184.00
Price of Shares: 1.22
s3 =
Checking information for asset...
FCCN current value: 0.01
FCCN owner information
Full name of the customer is David Black.
Stock Information
Number of Shares: 4500.00
Price of Shares: 0.15
s4 =
Checking information for asset...
EDXC current value: 0.00
EDXC owner information
Full name of the customer is Harry Carpenter.
Stock Information
Number of Shares: 1468642.00
Price of Shares: 0.05
b1 =
Checking information for asset...
Undefined current value: 0.00
Undefined owner information
```

```
Full name of the customer is .
Bond Information
Interest Rate: 0.00
b2 =
Checking information for asset...
JGBs current value: 9074.00
JGBs owner information
Full name of the customer is John .
Bond Information
Interest Rate: 0.05
b3 =
Checking information for asset...
BTPs current value: 2571.00
BTPs owner information
Full name of the customer is Emily Rose.
Bond Information
Interest Rate: 0.08
b4 =
Checking information for asset...
OATs current value: 0.00
OATs owner information
Full name of the customer is Harry Carpenter.
Bond Information
Interest Rate: 0.08
p1 =
Checking information for asset...
Undefined current value: 0.00
Undefined owner information
Full name of the customer is .
Property Information
Mortgage Rate: 0.00
p2 =
Checking information for asset...
House at L.A. current value: 2000000.00
House at L.A. owner information
Full name of the customer is David Black.
Property Information
Mortgage Rate: 0.09
p3 =
Checking information for asset...
House at NYC current value: 15000000.00
House at NYC owner information
Full name of the customer is Harry Carpenter.
Property Information
Mortgage Rate: 0.13
p4 =
Checking information for asset...
House at Madrid current value: 3000000.00
House at Madrid owner information
Full name of the customer is Emily Rose.
Property Information
Mortgage Rate: 0.25
>>
```