REPORT

Task 1: When click on the increment button, the stocks will increase.

Before:

manufacturer	model	year	stock	price	Option
Toyota	Rav4	2008	3	$8500.00	Increment
Toyota	Camry	2009	2	$6500.00	Increment
Toyota	Tacoma	2016	1	$22000.00	Increment
BMW	i3	2012	5	$12000.00	Increment
Chevy	Malibu	2015	2	$10000.00	Increment
Honda	Accord	2013	1	$9000.00	Increment
Hyundai	Elantra	2013	2	$7000.00	Increment
Chevy	Cruze	2012	2	$5500.00	Increment
Dodge	Charger	2013	2	$16000.00	Increment
Ford	Mustang	2009	1	$8000.00	Increment

After clicking on the first three increment button:

manufacturer	model	year	stock	price	Option
Toyota	Rav4	2008	4	$8500.00	Increment
Toyota	Camry	2009	3	$6500.00	Increment
Toyota	Tacoma	2016	2	$22000.00	Increment
BMW	i3	2012	5	$12000.00	Increment
Chevy	Malibu	2015	2	$10000.00	Increment
Honda	Accord	2013	1	$9000.00	Increment
Hyundai	Elantra	2013	2	$7000.00	Increment
Chevy	Cruze	2012	2	$5500.00	Increment
Dodge	Charger	2013	2	$16000.00	Increment
Ford	Mustang	2009	1	$8000.00	Increment

Solution Approach: I created a renderTableData() that will create the data using the information from the constructor. I created a update function that will update the stocks by increment 1 and use setState to have the table be updated.

Task 2: When click on the title year, the table will alternate between ascending and descending based on year

Before:

manufacturer	model	year	stock	price	Option
Toyota	Rav4	2008	3	$8500.00	Increment
Toyota	Camry	2009	2	$6500.00	Increment
Toyota	Tacoma	2016	1	$22000.00	Increment
BMW	i3	2012	5	$12000.00	Increment
Chevy	Malibu	2015	2	$10000.00	Increment
Honda	Accord	2013	1	$9000.00	Increment
Hyundai	Elantra	2013	2	$7000.00	Increment
Chevy	Cruze	2012	2	$5500.00	Increment
Dodge	Charger	2013	2	$16000.00	Increment
Ford	Mustang	2009	1	$8000.00	Increment

After first click on year:

manufacturer	model	year	stock	price	Option
Toyota	Tacoma	2016	1	$22000.00	Increment
Chevy	Malibu	2015	2	$10000.00	Increment
Honda	Accord	2013	1	$9000.00	Increment
Hyundai	Elantra	2013	2	$7000.00	Increment
Dodge	Charger	2013	2	$16000.00	Increment
BMW	i3	2012	5	$12000.00	Increment
Chevy	Cruze	2012	2	$5500.00	Increment
Toyota	Camry	2009	2	$6500.00	Increment
Ford	Mustang	2009	1	$8000.00	Increment
Toyota	Rav4	2008	3	$8500.00	Increment

After second click on year:

manufacturer	model	year	stock	price	Option
Toyota	Tacoma	2016	2	$22000.00	Increment
Chevy	Malibu	2015	2	$10000.00	Increment
Honda	Accord	2013	1	$9000.00	Increment
Hyundai	Elantra	2013	2	$7000.00	Increment
Dodge	Charger	2013	2	$16000.00	Increment
BMW	i3	2012	5	$12000.00	Increment
Chevy	Cruze	2012	2	$5500.00	Increment
Toyota	Camry	2009	3	$6500.00	Increment
Ford	Mustang	2009	1	$8000.00	Increment
Toyota	Rav4	2008	4	$8500.00	Increment

Solution approach: created sortByYearAsc() and sortByYearDesc() to sort the table according to their order and call setstate to update the table. Created orderUsers() to alternate the two type of sorting and OnSortChange() to display and update the table.