

ASSIGNMENT 3

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SUBJECT: MAT1011 L4

Registration no.: 19BCI7005

SLOT : L4

Q1.] House problem

```
>
price=c(52.00,54.75,57.50,57.50,59.75,62.50,64.75,67.25,67.50,69.75,70.00,
75.50,77.50,78.00,81.25,82.50,86.25,87.50,88.00,92.00)
> length(price)
[1] 20
> FloorArea=c(1225,1230,1200,
+
+           1000,
+
+           1420,
+
+           1450,
+
+           1380,
+
+           1510,
+
+           1400,
+
+           1550,
+
+           1720,
+
+           1700,
+
+           1660,
+
+           1800,
+
+           1830,1790,2010,2000,2100,2240)
> print(FloorArea)
[1] 1225 1230 1200 1000 1420 1450 1380 1510 1400 1550 1720 1700 1660 1800
[15] 1830 1790 2010 2000 2100 2240
> length(FloorArea)
[1] 20
> CentralHeating=c(YES,
```



```

+           'YES',
+
+           'YES',
+
+           'NO',
+
+           'NO',
+
+           'NO',
+
+           'NO',
+
+           'YES',
+
+           'NO',
+
+           'YES',
+
+           'YES',
+
+           'YES',
+
+           'NO',
+
+           'YES',
+
+           'NO',
+
+           'YES',
+
+           'YES')
> length(CentralHeating)
[1] 20
> Rooms=c(3,3,3,2,4,3,4,4,5,6,6,5,6,7,6,6,6,6,8,7)
> length(Rooms)
[1] 20
>
Age=c(6.2,7.5,4.2,4.8,1.9,5.2,6.5,9.2,0.0,5.7,7.3,4.5,6.8,0.7,5.6,2.3,6.7,
3.4,5.6,3,4)
> length(Age)
[1] 21
>
Age=c(6.2,7.5,4.2,4.8,1.9,5.2,6.5,9.2,0.0,5.7,7.3,4.5,6.8,0.7,5.6,2.3,6.7,
3.4,5.6,3,4)
> House=data.frame(price,FloorArea,Rooms,Age,CentralHeating)
> House
  price FloorArea Rooms Age CentralHeating

```

1	52.00	1225	3	6.2	YES
2	54.75	1230	3	7.5	NO
3	57.50	1200	3	4.2	NO
4	57.50	1000	2	4.8	NO
5	59.75	1420	4	1.9	YES
6	62.50	1450	3	5.2	YES
7	64.75	1380	4	6.5	NO
8	67.25	1510	4	9.2	NO
9	67.50	1400	5	0.0	NO
10	69.75	1550	6	5.7	NO
11	70.00	1720	6	7.3	YES
12	75.50	1700	5	4.5	NO
13	77.50	1660	6	6.8	YES
14	78.00	1800	7	0.7	YES
15	81.25	1830	6	5.6	YES
16	82.50	1790	6	2.3	NO
17	86.25	2010	6	6.7	YES
18	87.50	2000	6	3.4	NO
19	88.00	2100	8	5.6	YES
20	92.00	2240	7	3.4	YES

```
> length(House)
```

```
[1] 5
```

```
> nrow(House)
```

```
[1] 20
```

```
> ncolumn(House)
```

```
Error in ncolumn(House) : could not find function "ncolumn"
```

```
> ncol(House)
```

```
[1] 5
```

```
> head(House)
```

	price	FloorArea	Rooms	Age	CentralHeating
1	52.00	1225	3	6.2	YES
2	54.75	1230	3	7.5	NO
3	57.50	1200	3	4.2	NO
4	57.50	1000	2	4.8	NO
5	59.75	1420	4	1.9	YES
6	62.50	1450	3	5.2	YES

```
> tail(House)
```

	price	FloorArea	Rooms	Age	CentralHeating
15	81.25	1830	6	5.6	YES
16	82.50	1790	6	2.3	NO
17	86.25	2010	6	6.7	YES
18	87.50	2000	6	3.4	NO
19	88.00	2100	8	5.6	YES
20	92.00	2240	7	3.4	YES

```
> House[c(1,2,6,10),c(2,4,5)]
```

	FloorArea	Age	CentralHeating
1	1225	6.2	YES

2	1230	7.5	NO
6	1450	5.2	YES
10	1550	5.7	NO