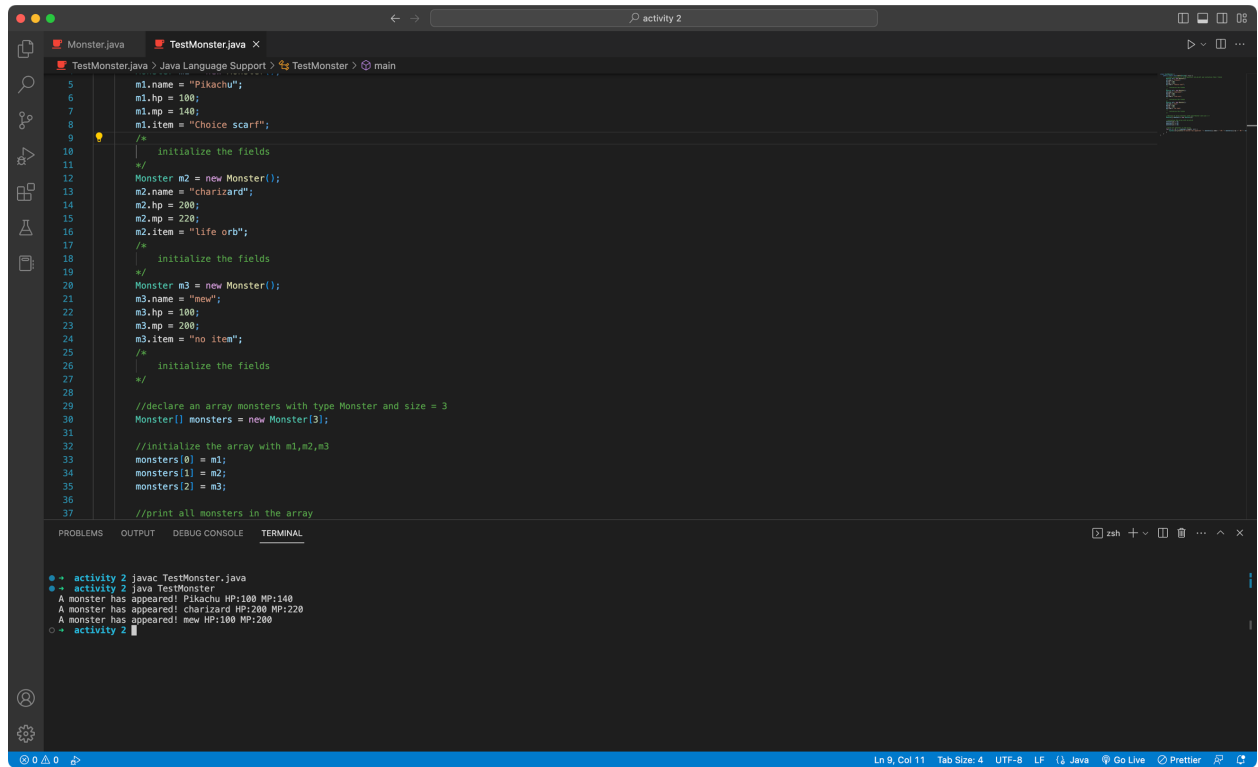


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Algorithm and Data Structure Lab Activity 2.2

1.

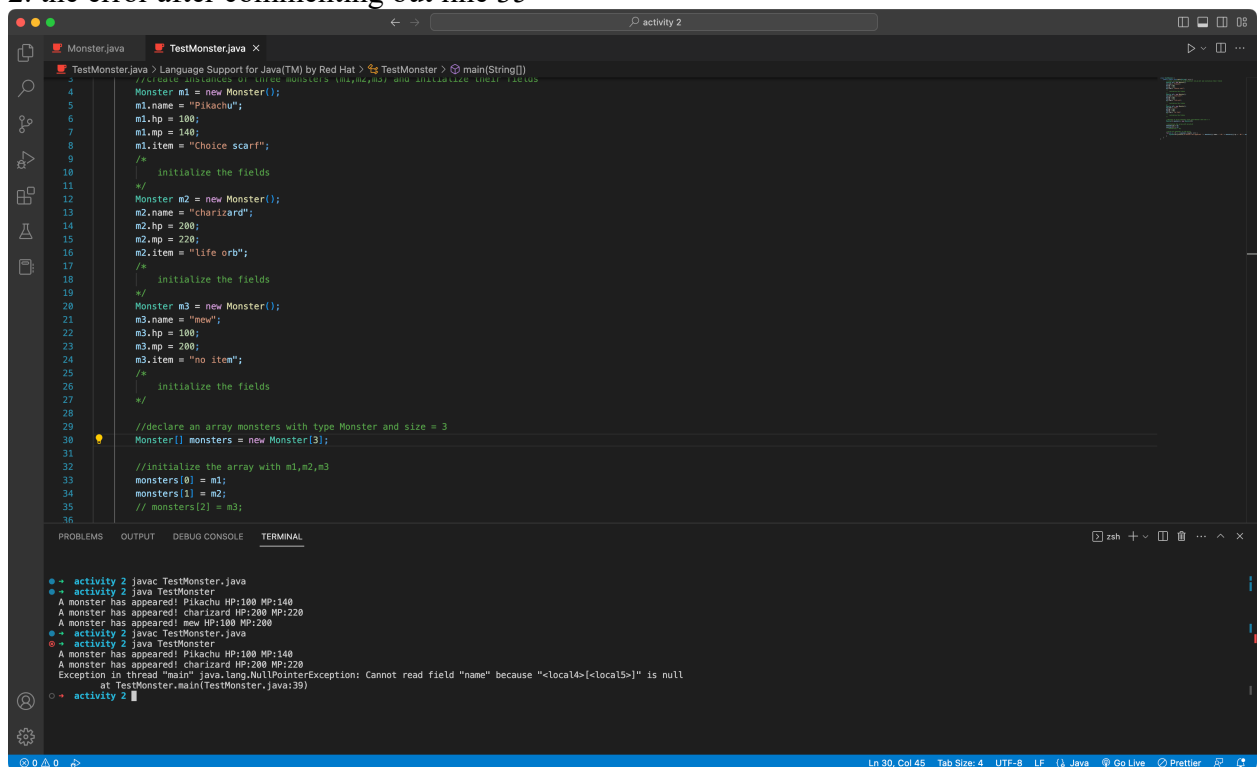


```
5 m1.name = "Pikachu";
6 m1.hp = 100;
7 m1.mp = 140;
8 m1.item = "Choice scarf";
9
10 /*
11  | initialize the fields
12  */
13 Monster m2 = new Monster();
14 m2.name = "charizard";
15 m2.hp = 200;
16 m2.mp = 220;
17 m2.item = "Life orb";
18 /*
19  | initialize the fields
20  */
21 Monster m3 = new Monster();
22 m3.name = "new";
23 m3.hp = 100;
24 m3.mp = 200;
25 m3.item = "no item";
26 /*
27  | initialize the fields
28  */
29
30 //declare an array monsters with type Monster and size = 3
31 Monster[] monsters = new Monster[3];
32
33 //initialize the array with m1,m2,m3
34 monsters[0] = m1;
35 monsters[1] = m2;
36 monsters[2] = m3;
37
38 //print all monsters in the array
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
• activity 2 javac TestMonster.java
• activity 2 java TestMonster
A monster has appeared! Pikachu HP:100 MP:140
A monster has appeared! charizard HP:200 MP:220
A monster has appeared! new HP:100 MP:200
• activity 2
```

2. the error after commenting out line 35



```
5 m1.name = "Pikachu";
6 m1.hp = 100;
7 m1.mp = 140;
8 m1.item = "Choice scarf";
9
10 /*
11  | initialize the fields
12  */
13 Monster m2 = new Monster();
14 m2.name = "charizard";
15 m2.hp = 200;
16 m2.mp = 220;
17 m2.item = "Life orb";
18 /*
19  | initialize the fields
20  */
21 Monster m3 = new Monster();
22 m3.name = "new";
23 m3.hp = 100;
24 m3.mp = 200;
25 m3.item = "no item";
26 /*
27  | initialize the fields
28  */
29
30 //declare an array monsters with type Monster and size = 3
31 Monster[] monsters = new Monster[3];
32
33 //initialize the array with m1,m2,m3
34 monsters[0] = m1;
35 // monsters[1] = m2;
36 // monsters[2] = m3;
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

```
• activity 2 javac TestMonster.java
• activity 2 java TestMonster
A monster has appeared! Pikachu HP:100 MP:140
A monster has appeared! charizard HP:200 MP:220
A monster has appeared! new HP:100 MP:200
• activity 2 javac TestMonster.java
• activity 2 java TestMonster
A monster has appeared! Pikachu HP:100 MP:140
A monster has appeared! charizard HP:200 MP:220
Exception in thread "main" java.lang.NullPointerException: Cannot read field "name" because "<local>[<local>]" is null
at TestMonster.main(TestMonster.java:39)
• activity 2
```