DESIGN PATTERNS - CPIT252

LAB_7

Shehab

SOLUTION

```
public class ImageElementsFactory {

private Map<String, ImageElement> flyweights = new HashMap<String, ImageElement>();

public ImageElement getFlyweight(String n) {

// return a flyweight if it already exists, otherwise, put it in the map.

if (flyweights.containsKey(n))

return flyweights.get(n);

flyweights.put(n, new ImageElement(n));

return flyweights.get(n);

public int numberOfFlyweights() {

return flyweights.size();

}

public int numberOfFlyweights() {

return flyweights.size();

}

}
```

If the image doesn't exist in the **hashmap** it'll create a link for it, else return the image.

```
9980 Flower.png: ImageElement@4591b7af
9981 Cloud.png: ImageElement@523884b2
9982 Tree.png: ImageElement@55275dab
9983 Palm.png: ImageElement@55275dab
9985 Tree.png: ImageElement@55275dab
9985 Tree.png: ImageElement@61832929
9986 Cloud.png: ImageElement@61832929
9987 Flower.png: ImageElement@61832929
9988 Tree.png: ImageElement@61832929
9989 Cloud.png: ImageElement@61832929
9990 Cloud.png: ImageElement@61832929
9991 Tree.png: ImageElement@61832929
9992 Flower.png: ImageElement@61832929
9992 Flower.png: ImageElement@61832929
9993 Flower.png: ImageElement@50b7af
9994 Flower.png: ImageElement@4501b7af
9995 Palm.png: ImageElement@55275dab
9996 Cloud.png: ImageElement@55275dab
9997 Tree.png: ImageElement@61832929
9998 Palm.png: ImageElement@61832929
9998 Palm.png: ImageElement@55275dab
9999 Tree.png: ImageElement@55275dab
```