OS Theory Concept Map

Tyler Chotikamars

CPT304: Operating Systems Theory & Design

Michael Hayden

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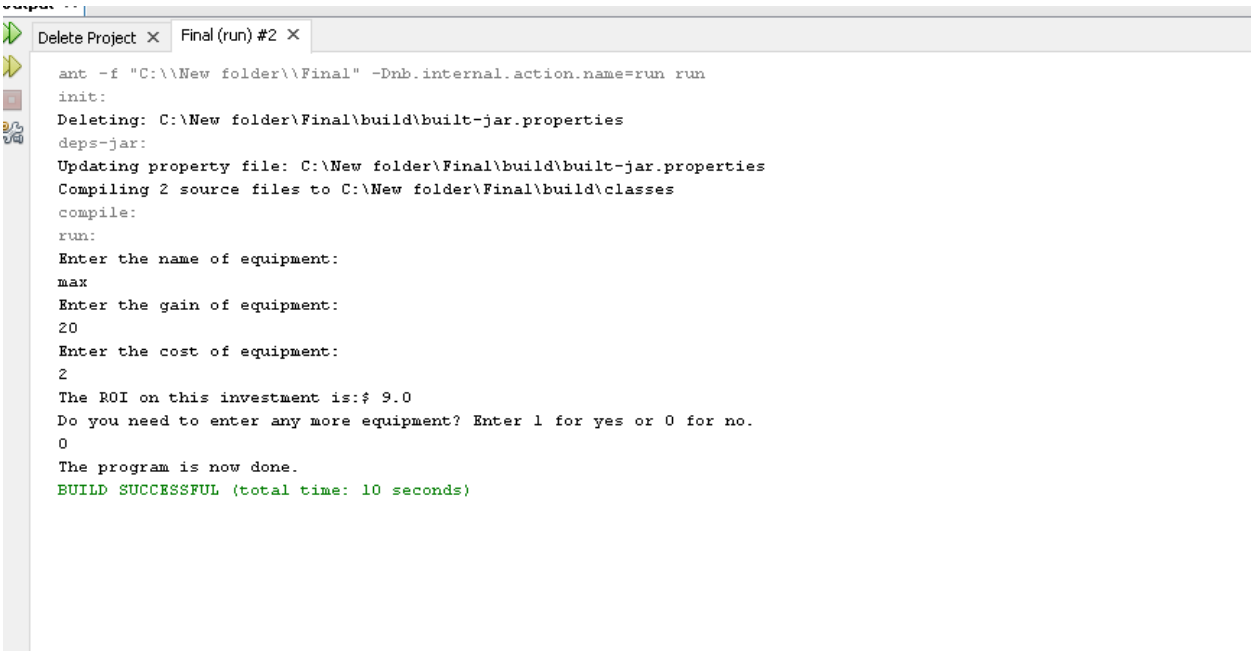
I am re-submitting this assignment upon seeing the sample code that you posted in the announcements. I think that if I had checked the announcements earlier, I could have been satisfied with what I could have done with the assignment.




```
import java.util.LinkedList;
import java.util.Scanner;
public class ROIProgram {

    public static void main(String[] args)
    {
        Scanner in = new Scanner(System.in);
        String equip;
        double cost;
        double gain;
        double ROI;
        int i=1;
```

```
        LinkedList<Node> list;
        list = new LinkedList<>();
        while(i==1){

            System.out.println("Enter the name of equipment: ");
            equip= in.nextLine();

            System.out.println("Enter the gain of equipment: ");
            gain= in.nextDouble();
            in.nextLine();

            System.out.println("Enter the cost of equipment: ");
            cost= in.nextDouble();
            in.nextLine();

            ROI=(gain-cost)/cost;

            list.add(new Node(equip, cost, gain, ROI));
            System.out.println("Do you need to enter any more equipment? Enter 1 for yes or 0 for
no. ");
            i= in.nextInt();
            in.nextLine();
            System.out.println("The program is now done.");
        }

}
}
import java.util.Scanner;
```

```
import java.text.DecimalFormat;
import java.util.LinkedList;
class Node {

    public String equipment;
    public double cost;
    public double gain;
    public double ROI;
    public double ROI2;
    public double ROI3;
    public Node(String equipment1 , double gain1 , double cost1, double ROI1 ){
        this.equipment=equipment1;
        this.cost=cost1;
        this.gain=gain1;
        this.ROI=ROI1;
        System.out.println("The ROI on this investment is:$ " + ROI1);



    }
    }
```

References:

Lysecky, R., Vahid, F., Lysecky, S., & Givargis, T. (2015). *Data structures essentials*. Retrieved from: https://zybooks.zyante.com/#/zybook/DataStructuresEssentialsR25/chapter/1/section/3

Kromkamp, B. (2014). Breadth-first vs. depth-first tree traversal. Retrieved from: https://ashford.instructure.com/courses/81058/files/14936560/download?wrap=1