

**Question 1**

Willy's Winter Wonderland sells Christmas Trees in three sizes. Six foot trees cost €50, eight foot trees cost €60, and ten foot trees cost €75.

Write a java program that will work out the total sales for an employee. The program will begin by asking the user how many trees they sold. It should then ask them to enter the height of each tree sold, before calculating and displaying the total sales for that employee, and the number of each height of tree sold.

The shop offers a bonus scheme for employees. If most of the trees sold by an employee are ten foot trees, they get a bonus of 20% of their total sales. If most of the trees sold are eight foot trees, they get a bonus of 10%. If most of the trees sold are 6 foot trees, they get a bonus of 5%. Employees who sell fewer than 5 trees do not get a bonus at all.

**Sample output:**

```
How many Christmas trees did you sell this week? 5
Enter the height in feet of tree number 1 [6, 8 or 10]: 6
Enter the height in feet of tree number 2 [6, 8 or 10]: 8
Enter the height in feet of tree number 3 [6, 8 or 10]: 7
Invalid tree height. Enter 6, 8 or 10.
Enter the height in feet of tree number 3 [6, 8 or 10]: 10
Enter the height in feet of tree number 4 [6, 8 or 10]: 10
Enter the height in feet of tree number 5 [6, 8 or 10]: 10
```

```
Total trees sold: 5
6ft trees sold: 1
8ft trees sold: 1
10ft trees sold: 3
Total sales for the week: 335.0
Because most trees you sold were 10 ft: 20% bonus is 67.0
```