```
import java.util.*;
public class ExpenseTracker {

	public static void main(String[] args) {
		// TODO Auto-generated method stub
		Scanner sc = new Scanner(System.in);
		ExpenseDetails ob = new ExpenseDetails();
		char ch = 'y';
		while(ch=='y'||ch=='Y')
		{
			// asking user for what to do

			System.out.println("What do you want to do : \n1. Add / Addmore expenses \n2. Showexpenses \n3. Show CategoryWise\n4. stop/exit");
			int x = sc.nextInt();
			switch(x)
			{
			case 1:ob.addmore();break;				// calling addmore() method
			case 2 : ob.show();break;				// callig show() method
			case 3 : ob.categoryWise();break;			// calling categoryWise() method
			case 4 : System.out.println("Do you want to continue or not ? y/n"); // asking for user to exit or not
				ch = sc.next().charAt(0);
				if(ch=='n'||ch=='N')
				    System.exit(0);
			}

		}

	}
```

```
}

// class consisting of addmore(),show(),categorywise() methods
 class ExpenseDetails
{
	Scanner sc = new Scanner(System.in);
	String[] category = new String[50];     // category[] to read the types of categories(groceries , bills etc..)
	String[] desc = new String[50];        // desc[] to read the short descriptions on spent amount
	int[] amt = new int[50];               // amt[] to read the amount spent

	int c=0;
	int total =0;


	// addmore() method to read the category , amount , description about the expense

	public void addmore()
	{
		System.out.println("Enter the category : ");              // read the category items
		String s   = sc.next();
		category[c] = s.toUpperCase();
		System.out.println("Enter the amount spent : ");          // read the amount
		amt[c] = sc.nextInt();
		total = total + amt[c];
		sc.nextLine();
		System.out.println("short sentence about monry expenditure on this thing : ");   // read the description
		desc[c++] = sc.nextLine();
	}
```

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	// show() method to details of the amount spent on in tabular form
	public void show()
	{
		System.out.println("Category \t"+"Amount Spent\t"+"Description\t");
		for(int i=0;i<c;i++)
		{
			System.out.println(category[i]+"\t\t"+amt[i]+"\t\t"+desc[i]);
		}
		System.out.println("Total \t\t"+total+"\t\t----");

	}

	//categoryWise() method to print the details of amount spent on different items by category wise
	public void categoryWise()
	{
		int totalamt =0;

		TreeSet<String> hs = new TreeSet<String>(); // treeset ,to extract the unique ele's from category[] elements
		for(int i=0;i<c;i++)
		{
			hs.add(category[i]);
		}
//		for(String sh : hs)			// to print the unique categories in hashset
//			System.out.println(sh);
		String[] arr = new String[hs.size()];
		hs.toArray(arr);			// converting treeset to array , so that treeset and category arrays can be compared

//		for(int i=0;i<hs.size();i++)
```

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//                      System.out.println(arr[i]);          // printing the unique elements of treeset

                System.out.println("Category \t"+"Amount Spent\t"+"Description\t");

                for(int i=0;i<hs.size();i++)            // comparing the unique elements with category ,
                                                    //  to add all amount of particular category type
                {
                        totalamt =0;
                        for(int j=0;j<c;j++)
                        {
                                if(arr[i].equals(category[j]))
                                {
                                        totalamt += amt[j];
                                }
                        }
                        System.out.println(arr[i]+"\t\t"+totalamt+"\t\t"+"-----");
                }
//

        }
}
```