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```
import java.util.Scanner;

/**
 * SalesByDay captures and adds up a week's sales
 * by day of the week.
 *
 * @author Merrill Hall
 * @version 1.0
 */

public class SalesByDay
{
    public static void main(String[] args)
    {
        String inputDay = "";
        int dayIndex = 0;
        int saveIndex = 0;
        double inputAmt = 0.0;
        double saveAmt = 0.0;
        double[] dailySales = {0.0,0.0,0.0,0.0,0.0,0.0,0.0};
        Scanner keyInput = new Scanner(System.in);

        System.out.print("Enter a day of the week (Su,Mo,Tu,We,Th,Fr,Sa) or Q to quit: ");
        inputDay = keyInput.next().trim().toUpperCase();
        keyInput.nextLine(); // read the rest of the line

        while (!inputDay.equals("Q"))
        {
            if (inputDay.equals("SU"))
                dayIndex = 0;
            else if (inputDay.equals("MO"))
                dayIndex = 1;
            else if (inputDay.equals("TU"))
                dayIndex = 2;
            else if (inputDay.equals("WE"))
                dayIndex = 3;
            else if (inputDay.equals("TH"))
                dayIndex = 4;
            else if (inputDay.equals("FR"))
                dayIndex = 5;
            else if (inputDay.equals("SA"))
                dayIndex = 6;
            else
            {
                System.out.print("\nInvalid day. Try again: ");
                inputDay = keyInput.next().trim().toUpperCase();
                keyInput.nextLine(); // read the rest of the line
                continue;
            }

            do
            {
                System.out.print("Enter a sale amount: ");
                if (keyInput.hasNextDouble())
                {
                    inputAmt = keyInput.nextDouble();
                    keyInput.nextLine(); // read the rest of the line
                }
                else
                {
                    inputAmt = 0.0;
                    keyInput.nextLine();
                }
                if (inputAmt > 0.0)
                    dailySales[dayIndex] += inputAmt;
                else
            }
        }
    }
}
```

```

        System.out.println("\nInvalid amount. Try again.");

    } while (inputAmt <= 0.0);

    System.out.print("Enter a day of the week (Su,Mo,Tu,We,Th,Fr,Sa) or Q to quit: ");
    inputDay = keyInput.next().trim().toUpperCase();
    keyInput.nextLine(); // read the rest of the line
}

System.out.println("\n\nSunday Sales = $" + dailySales[0] +
    "\nMonday Sales = $" + dailySales[1] +
    "\nTuesday Sales = $" + dailySales[2] +
    "\nWednesday Sales = $" + dailySales[3] +
    "\nThursday Sales = $" + dailySales[4] +
    "\nFriday Sales = $" + dailySales[5] +
    "\nSaturday Sales = $" + dailySales[6] + "\n\n");

for (dayIndex = 0; dayIndex < 7; dayIndex++)
{
    if (dailySales[dayIndex] > saveAmt)
    {
        saveAmt = dailySales[dayIndex];
        saveIndex = dayIndex;
    }
}

switch(saveIndex)
{
    case 0: System.out.println("The best day was Sunday with sales of $" + saveAmt);
            break;
    case 1: System.out.println("The best day was Monday with sales of $" + saveAmt);
            break;
    case 2: System.out.println("The best day was Tuesday with sales of $" + saveAmt);
            break;
    case 3: System.out.println("The best day was Wednesday with sales of $" + saveAmt);
            break;
    case 4: System.out.println("The best day was Thursday with sales of $" + saveAmt);
            break;
    case 5: System.out.println("The best day was Friday with sales of $" + saveAmt);
            break;
    case 6: System.out.println("The best day was Saturday with sales of $" + saveAmt);
            break;
}
}
}

```

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