Selection - switch Structure

The switch statement can be used for numerous paths when choosing a path based on a single value rather than a range. It starts execution at body of 1st matching value and continues until the break statement.

Syntax

```
switch (expression)
     case ordinal value: [case ordinal value:]
          //body of 1st case(s)
          [break;]
     case ordinal value: [case ordinal value:]
          //body of 1^{st} case(s)
          [break;]
     Γ
     default:
          //body of default executed if not previous match
     ]
}
Example
```

```
// The "Switch" class.
public class Switch
   public static void main (String [] args)
        final int ADD = 1;
        final int SUBTRACT = 2;
        Scanner sc = new Scanner(System.in);
        int option;
        int operand1, operand2;
        int operation;
        System.out.println ("Calculations\n");
        System.out.println ("Enter two operands to manipulate");
        System.out.print ("operand 1: ");
        operand1 = sc.nextInt ();
        System.out.print ("operand 2: ");
        operand2 = sc.nextInt ();
        System.out.println ("\nOperator Menu\n");
        System.out.println (ADD + ": Addition");
```

```
System.out.println (SUBTRACT + ": Subtraction");
        System.out.print ("What calculation do you want to perform: ");
        operation = sc.nextInt ();
        switch (operation)
            case ADD:
                System.out.println ("result = " + (operand1 +
operand2));
               break;
            case SUBTRACT:
                System.out.println ("result = " + (operand1 -
operand2));
               break;
            default:
                System.out.println ("Invalid option. Try again");
   } // main method
} // Switch class
```

Additional information on the switch statement found at: http://java.sun.com/docs/books/tutorial/java/nutsandbolts/switch.html