Switch Statement : alternate of if-else

Syntax

```
switch(condition) {
    case val1:
        //statement
        break;          → optional
    case val2:
        //statement
        break;
    .
    .
    .
    default:            → optional
        //statement
        break;
}
```

```java
class HelloWorld {
    public static void main(String[] args) {
      int i = 5;
      switch(i){
          case 1:
              System.out.println("A");
              break;
          case 2 :
              System.out.println("b");
              break;
        case 3:
              System.out.println("c");
              break;
       case 4:
              System.out.println("d");
              break;
        default:
              System.out.println("e");
              break;
      }
    }
}
```

Disadvantage

only single variable can be checked.

Switch Calculator 1

```
Scanner s = new Scanner(System.in);
int n = s.nextInt();
int a  = s.nextInt();
int b = s.nextInt();
```

```
switch(n){
    case 10:
        System.out.println((a+b));
        break;
    case 20:
         System.out.println((a-b));
        break;
         case 30:
         System.out.println((a*b));
        break;
         case 40:
        if(b != 0){
         System.out.println((a%b));
        }
        else{
            System.out.println("Error: Integer modulo by zero");
        }
        break;
         case 50:
        if(b != 0){
         System.out.println((a/b));
        }
        else{
            System.out.println("Error: Division by zero");
        }
        break;
    default:
        System.out.println("Enter a valid number");
        break;
}
// scanner.close();
```

HW_Height, weight and age

```
int height, wt, age;
// by deafult AND
if(h == 5 && wt == 50 && age ==10){
    print("overweight");
}
else if(h ==5 || wt==60){
    print("fat";)
}
else if(h ==6 && wt==50){
    print("slim");
}
else{
    print("none");
}
```

HW_Print the day

```
Scanner s = new Scanner(System.in);
int n = s.nextInt();

switch(n){
    case 1:
        System.out.println("Monday");
        break;
        case 2:
        System.out.println("Tuesday");
        break;
        case 3:
        System.out.println("Wednesday");
        break;
        case 4:
        System.out.println("Thursday");
        break;
        case 5:
        System.out.println("Friday");
        break;
        case 6:
        System.out.println("Saturday");
        break;
        case 7:
        System.out.println("Sunday");
        break;
    default:
        System.out.println("Enater a valid day");
}
```