

## CECS 174 – Project 1

### Operators and String Formatting –

A shopkeeper in Diagon Alley needs you to write a program that will calculate the correct amount of change due to a customer. (In Diagon Alley they use three coins with different values, given below).

1. Prompt the user to input the amount of sale in Galleons, Sickles, and Knuts.
2. Prompt the user to input the amount of money given by the customer in Galleons, Sickles, and Knuts.
3. Create constants that represent:
  - a. 1 Galleon = 17 Sickles
  - b. 1 Sickle = 29 Knuts
4. Perform the necessary calculations and conversions to compute the correct change in the least number of coins.
5. Create a formatted receipt recording the entire transaction (see examples below).

### Examples:

```
Welcome to Flourish and Blotts
Please enter amount of sale (G S K): 5 11 17
Please enter amount tendered (G S K): 6 0 0
```

```
*****
*                               *
*           Flourish & Blotts   *
*                               *
*   Amt of Sale ..... 5 G   11 S  17 K *
*   Amt Received ..... 6 G   0 S   0 K *
*   Change Due ..... 0 G   5 S  12 K *
*                               *
* Thank You for Shopping at Flourish and Blotts *
*****
```

```
Welcome to Flourish and Blotts
Please enter amount of sale (G S K): 3 0 4
Please enter amount tendered (G S K): 2 21 62
```

```
*****
*                               *
*           Flourish & Blotts   *
*                               *
*   Amt of Sale ..... 3 G   0 S   4 K *
*   Amt Received ..... 2 G  21 S  62 K *
*   Change Due ..... 0 G   6 S   0 K *
*                               *
* Thank You for Shopping at Flourish and Blotts *
*****
```