

**Worksheet: Iteration Basics 3**

1. Write a program that uses a `for` loop to ask the user for 5 numbers, then prints their sum and average.

```
Enter number 1 : 4
Enter number 2 : 7
Enter number 3 : 2
Enter number 4 : 9
Enter number 5 : 3

Sum: 25
Average: 5.0
```

2. Ask the user for a string and a single character. Use a `for` loop to count and print how many times that character appears in the string.

```
Enter a string: Mississippi
Enter a character to count: s
's' appears 4 times.
```

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3. Use a `for` loop to complete Python code that prints out every second element of the given list:

```
1 fruits = [ "apple", "banana", "cherry", "durian", "eggplant" ]
```

```
apple cherry eggplant
```

4. Use nested `for` loops to write code that produces the output shown.

```
1 x 1 = 1      1 x 2 = 2      1 x 3 = 3
2 x 1 = 2      2 x 2 = 4      2 x 3 = 6
3 x 1 = 3      3 x 2 = 6      3 x 3 = 9
```