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## Loop (and Range) Handout (Answers)

Using a **for/while** loop, write a short code snippet to complete each task.

**G. Count the number of vowels in a given string.**

```
phrase = input("Enter a prhase.")
vowels = "aeiouAEIOU"
count = 0
index = 0
for i in phrase:
    print(i)
    if(i in vowels):
        count = count + 1
print(count)
```

**H. Output only the vowels included in a given string.**

```
phrase = input("Enter a prhase.")
vowels = "aeiouAEIOU"
letters = ""
for i in phrase:
    if(i in vowels):
        letters = letters + i
print(letters)
```

**I. Add up all the numbers from 1 to 10.**

```
sums = 0
for i in range(1,11):
    sums = sums + i
print(sums)
```

**J. Count down from 100 by 7.**

```
for i in range(100,-1,-7):
    print(i)
```

**K. Loop until the user enters 'q' for quit.**

N/A - Use a while loop.

**L. Output the times table from 1 to 12 (in a grid).**

```
for i in range(1,13):
    line = ""
    for k in range(1,13):
        m = i * k
        line = line + str(i) + "x" + str(k) + "=" + str(m) + "\t"
    print(line)
```