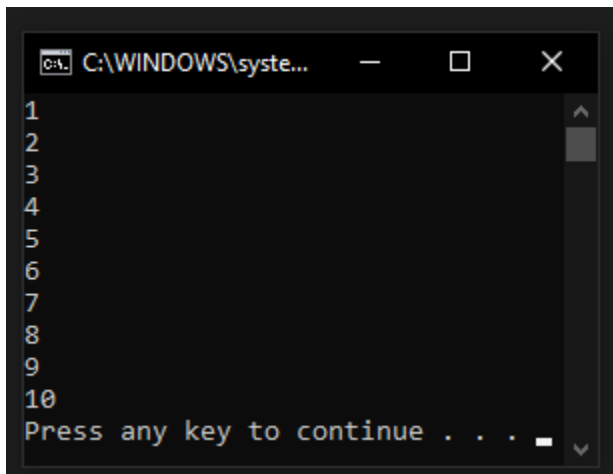


## Chapter 4

### Project #1

```
1      # Exercise 1: Basic For Loop
2
3      # For loop
4      for x in range(1, 11):
5          print(x)
6
7
```



```
C:\WINDOWS\system...
1
2
3
4
5
6
7
8
9
10
Press any key to continue . . .
```

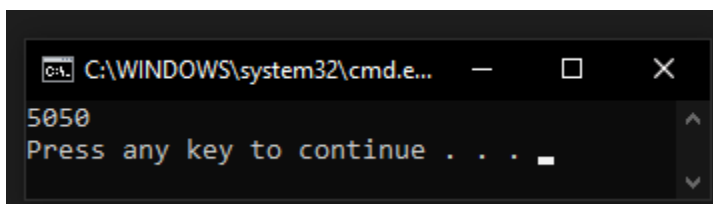
### Project #2

```
# Exercise 2: Sum of Numbers

# Variable declared
sum = 0

# For loop
for x in range(1, 101):
    sum += x

# Final output
print(sum)
```



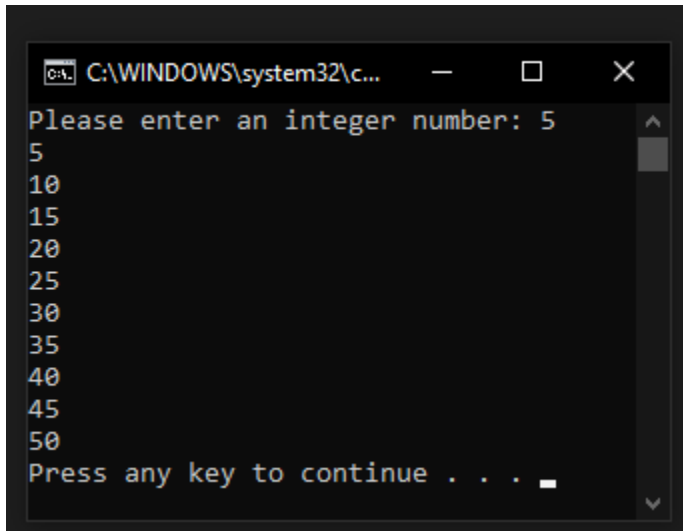
```
C:\WINDOWS\system32\cmd.e...
5050
Press any key to continue . . .
```

### Project #3

```
# Exercise 3: Multiplication Table

# Ask user to input an integer
userInput = int(input("Please enter an integer number: "))

# For loop
for x in range(1, 11):
    print(userInput * x)
```



A screenshot of a Windows command prompt window. The title bar shows the path "C:\WINDOWS\system32\c...". The prompt displays the text "Please enter an integer number: 5" followed by the user's input "5". Below this, a multiplication table is shown for the number 5, with results from 5 to 50 in increments of 5. The prompt ends with "Press any key to continue . . . \_".

```
C:\WINDOWS\system32\c...
Please enter an integer number: 5
5
10
15
20
25
30
35
40
45
50
Press any key to continue . . . _
```

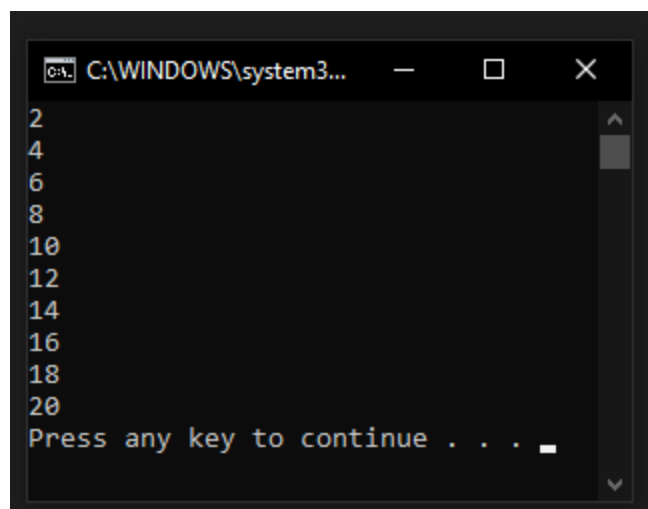
### Project #4

```
# Exercise 4: While loop

# Variable declared
x = 1

# While loop
while x < 21:
    # if branch
    if x % 2 == 0:
        print(x)

    # iterate by adding 1
    x = x + 1
```



```
C:\WINDOWS\system32\cmd.exe
2
4
6
8
10
12
14
16
18
20
Press any key to continue . . .
```