Braeden Olney

49696247

CS380

Assignment 1

Question 1
What are the steps involved in creating a new repository on GitHub, and how can you add files to it using the command line?
Answer:
To make a new repostitory on Github navigate to the dashboard on github, and from there in the top right corner there is a plus icon, click the plus icon and slect new repository. Name the repository, click README, and click “create” repository at the bottom of the page.

To add files to the repository using the command line open GitBash, type “cd” and the packagetest path and hit enter. Then type “git init” then enter, after that type “git remote add origin “ followed by the path of the repository

Question 2
Create a repository and call it CS-380-Intro-to-SE-SP-2023
Answer:
This repository url: BraedenOlney/CS-380-Intro-to-SE-SP-2023 (github.com)

Question 3
How can you reverse a given number in Java, and what would be the code implementation for it?
Answer: Yes. To reverse the reverse a given number (num) in java make a temp string and save the number as a string using valueOf thus making temp a string of the number to reverse. Make a second temp (temp2) to do string manipulation. Use a for loop, looping from 0 to the length of the string, and setting temp2 to what temp to currently is concatenated with the charAt temp.length()-1-i in temp. After the loop is completed temp2 will be the number in reverse thus set num to temp2 with parseInt. The following method is the java code for this prompt

```
public static int reverseNum(int num) {
          String temp = String.valueOf(num);
          String temp2="";
          for(int i = 0; i <temp.length(); i++) {
               temp2 = temp2 + temp.charAt(temp.length()-1 - i);
          }
          num = Integer.parseInt(temp2);
          return num;
     }
```

Full program is also in the repository linked above

*CS380_Lab0.java

```java
package packagetest;

public class CS380_Lab0 {
    public static void main(String[] args) {

        //initialize a number to reverse
        int num = 12345;
        //call and print reverse method
        System.out.println(reverseNum(num));

    }

    //reverses and returns a given number
    public static int reverseNum(int num) {
        //make a temp String of the number as a string
        String temp = String.valueOf(num);
        //temp2 is an empty string to manipulate the first string
        String temp2="";
        //loop through the string
        for(int i = 0; i <temp.length(); i++) {
            //starting from the end loop throug setting temp2 to
            //be the current char in the string
            temp2 = temp2 + temp.charAt(temp.length()-1 - i);
        }
        //set num to the reversed num
        num = Integer.parseInt(temp2);
        //return num
        return num;
    }
}
```