Take Home Questions:

CS 130 - 02

30 Points

Due : 10/26/22 by 10 am

Submit this file with screen shots and typed answers and add the .java files on Github and Submit the GitHub link on Moodle

1. **Reverse a number using** <u>while loop.</u>
   Input 3456 output 6543
   Add screenshot

   Result
   CPU Time: 0.16 sec(s), Memory: 32984 kilobyte(s)   compiled and executed in 1.253 sec(s)

   ```
   Original Number: 3456
   Reversed Number: 6543
   ```

   Note: Please check our documentation, or Youtube channel. for more details

2. **Add first and last digit of a given number using** <u>do while</u> **loop. If the number is single digit, then the code will return the digit itself.**
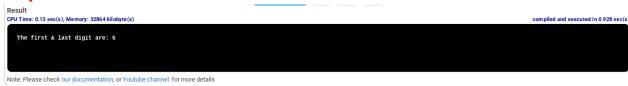   Add screenshot
   Input 123
   Output 4
   Input 7
   Output 7

   Result
   CPU Time: 0.13 sec(s), Memory: 32864 kilobyte(s)   compiled and executed in 0.928 sec(s

   ```
   The first & last digit are: 5
   ```

   Note: Please check our documentation, or Youtube channel. for more details

3. **Print the even numbers between 10 to 30 using for loop**
   Add screenshot

4. **Print the odd numbers between 10 to 30 using while loop**
   Add screenshot

5. **Difference Between While and Do while Loop**
   While will print a condition repeatededly while a condition is true and will only print once if false. Do while is a series of operators that activate to conditions that are true or false.

6. **Difference between For and While loop**
   For is a controlled loop while while is an exit controlled loop.