

**Homework 3**  
**(501110-2) Introduction to Problem Solving**  
**Fall 2020**  
**Due: Monday October 5, 2020, 11:59 p.m. via Blackboard**

► **Question 1**

Hand trace the following program:

1. Start
2. Declare n, m, x, y.
3.  $m=10$ .
4.  $n=m^2/(m+2)$ .
5.  $m=m\%n+2$
6.  $x=4$ .
7.  $y=x^2+10\%3-2*x$
8.  $x=x*(y/m)$
9. Display n.
10. Display m
11. Display x
12. Display y
13. End.

► **Question 2**

Hand trace the following program:

1. Start
2. Declare a, b, c.
3.  $a=8$ .
4.  $b=5$ .
5.  $b=a+b$ .
6.  $c= a+b$
7.  $b=2*a+b$

8.  $c = b \% a$
9. Display a.
10. Display b
11. Display c
12. End.