**In-class Problem #12**

**Pre tank Lab**

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| **Inputs**  Start button  Sensor 1  Sensor 2  Reset button  Tank preset  Temp preset  Fill tank  Heat tank | **Outputs**  Tank  Temp  Pump on  Conv. on  Heater on  Cup filling  Status String | **Process**   1. Start 2. Pump on until tank is increased to preset value 3. Conveyor on until sensor 1 is pushed 4. Heater on until temperature is increased to preset Temp 5. Cup fills for 5 seconds 6. Conveyor on until sensor 2 is pushed 7. Off |