# Quiz 4

Wed Nov 14

You have up to 25 minutes. You may use a standard calculator if necessary, but no text book, notes, or computer.

1. What is the **output** of the following Python program? Remember that variable assignments and updates do *not* produce output – only print statements do. You may want to make some notes to keep track of those variables, so clearly label what is scratch work and what is output.

```python
user = "Inara"
k1 = 3*2
print("Hi", user)
print("Level", k1)
k1 = k1 + 2
print("k1")
```

2. The following Python program uses conditional statements (if/else). What is its **output?** Again, clearly label what is scratch work and what is output.

```python
xy = 5
zq = 3
print(xy*2)
if xy > 7:
    print("yes")
else:
    print("no")
print(xy + zq)
```

3. This question is about scheduling tasks on the CPU in an operating system. We'll use **batch** processing, which means that once we start a task, we will run it to completion without interruption. There are two ways to select the next task to run: First-come, first-served (FCFS) and Shortest job first (SJF).

   Calculate the **average turnaround time** for scheduling the following jobs using both FCFS and SJF.

   | Job | Time |
   |-----|------|
   | J1  | 3    |
   | J2  | 8    |
   | J3  | 2    |
   | J4  | 4    |