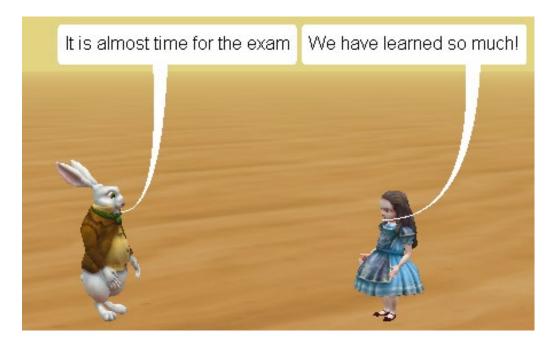
# CompSci 94 Review for Exam1 September 23, 2021



Prof. Susan Rodger

# Class Today

- Review for Exam 1
- For Thursday Sept 30, next quiz and videos
- Exam 1 is Tuesday, Sept 28
  - Old tests are on Resources tab
  - See them on today's date with problems marked out (we have not done if, loops and written functions yet)
- Checkoff classwork you have done, also ok to check classwork 8 from Sept 21 in next class period with classwork, on Sept 30!

# Exam Logistics

- Exam is on paper
- Tuesday, Sept 28 regular class time
  - More time if you get accommodations
  - Should have gotten email from me
- The exam is your own work
- Do not talk about the exam with anyone until it is handed back
- See the Exam1 reference sheet
  - Alice snapshots of procedure names provided

### Exam Topics - Alice

- Alice Videos on warpwire
  - -2.x, 3.x, 4.1.0-4.2.2
- Setup, camera markers, invisible object markers
- Built-in procedures and functions
- Built-in properties: vehicle, opacity, height, etc
- Do in order, Do together
- Write a procedure with parameters
- Use procedure with arguments
- Random numbers, constant variables

## Best Way to Study for Exam

- Study Lecture notes, watch video again
- Study Classwork
  - Can you write a procedure on paper or type in file?
  - Try to recreate a classwork or write on paper
- Old exams are available on course web page
  - See "Old Tests" link (on resources tab)
  - Practice writing methods on paper
- Old Reading Quizzes available today as practice quizzes (for no credit) - part of studying
  - More important practice writing code

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#### Old exams

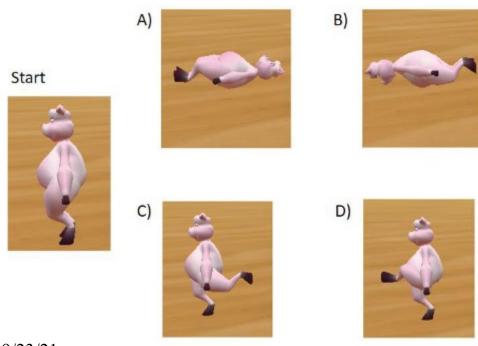
- On resources tab on course web page
- Fall 2020, Fall 2019 and Spring 2019 most like your exam
- Fall 2018, Spring 2018 Alice 3 (material in different order)
- All other exams are Alice 2, which is different
- Ignore HTML, CSS, IF stmts, loops questions
- See list of questions to study, ignore other ones
- No classwork today, just review.
- Practice writing code on paper

# Some Practice questions

#### Problem 1

 Consider the following Alice code and the pig is standing straight up as shown with Start in the figure on the left below. Which figure A)-D) is where the pig will be after this line of code is executed?





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# You should practice writing code

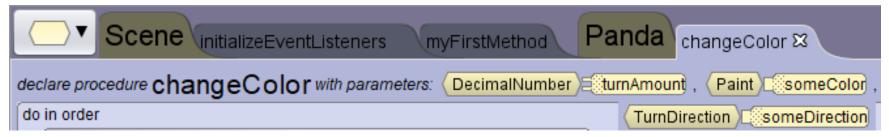
 Practice writing code from classworks and old exams

#### Problem 2

# Write panda Procedure changeColor

- This procedure has three parameters
  - One parameter of type **Decimal** named turnAmount
  - One parameter of type Paint named someColor
  - One parameter of type TurnDirection named someDirection.
- When called, taking 3 seconds total, the panda turns around the turnAmount in the direction someDirection while at the same time changing to the color someColor.

# Write the procedure changeColor



# Give the two calls to changeColor

• Give the call that has the panda turn right twice while turning Blue

• Give the call that has the panda turn left 1.5 times while turning Green

#### Problem 3:

# Write Bunny Procedure funJumping

- This procedure has four parameters
  - One parameter of type **Decimal** named **opValue**
  - Two parameters of type **Paint** named **color1**, **color2**
  - One parameter of type Sdisc named someDisc
- Before called, the bunny is standing on a disc that will be passed as an argument

# funJumping story(cont)

- The disc moves up 1 and back down to the ground carrying the bunny up and down with it. As the disc moves up it changes its color to color1 and the bunny changes its color to color2.
- Next the bunny changes its opacity to opValue
- The disc moves up 1 and back down again with the bunny
- Then instantly, the bunny turns back to its original color, the bunny is no longer faded and the disc disappears.

# Write the procedure funJumping

```
declare procedure funJumping with parameters: DecimalNumber opValue, Paint color1,

do in order

Paint color2, SDisc someDisc
```

# Now let's look at some old exams