Name: Robert Lefrandt	Grading Quarter: 4	Week Beginning: Week 9 05/13/2024
School Year: 2023-24	Subject: Software & App Design	

Monday

Notes:

PCEP™ – Certified Entry-Level Python Programmer (Exam PCEP-30-0x)

PCEP™ – Certified Entry-Level Python Programmer certification shows that the individual is familiar with universal computer programming concepts like data types, containers, functions, conditions, loops, as well as Python programming language syntax, semantics, and the runtime environment.

pythoninstitute.org/pcep

******Certified Internet Web (CIW) JavaScript Specialist***

05/13/2024 Software & App Design –
Objective:
Students will:

- continue to define what the Software & App Class is and what are the Arizona State Standards, skills, and possible credentials, certifications.
- Understand the front and backend of a web-stack
- Start with front-end: HTML and CSS using freecodecamp
- Begin TechSmart: CS Python Learning Management System (LMS)

Lesson Overview:

- **Look at Arizona State Standards**
- Software & App Design: Define what is.
- Resources
  - w3schools. Stackoverflow, pythontutor

Learning Management System (LMS) – Student Accounts Login

- FreeCodeCamp – WebStack:
  - 15 Steps per school day,
  - 15x 5 = 75 steps Thurs.-Thurs. per school week
    - Learn HTML by Building a Cat Photo App (steps 1-69)
    - Learn Basic CSS by Building a Cafe Menu (steps 1-91)
    - Learn CSS Colors by Building a Set of Colored Markers (steps 1-94)
  - * **Not counting 1st week, wk2-4, counting 3 weeksth done: 3 x 75 = 225 steps**
  - **Should be in Course "**CSS Colors by Building a Set of Colored Markers"
- TechSmart – Python
  - **Unit 3 Loops – Intro**
  - **Unit 3.1 While Loops**
  - **Unit 3.2 Controlling Loops – Intro**
  - **Unit 3.3 Classes**
  - **Unit 3 While 3.4 Graphics**
  - **Unit 3.5 Animation**
  - **Unit 3.6 Interaction**
  - **Unit 3.7 For-Range Loops**

Software and App Design - 11.0202.00

Arizona Department of Education Website:
Program Description/Industry Credentials/Coherent Sequence/
www.azed.gov/cte/sd/

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Academic Standards:

STANDARD 4.0 UTILIZE PRIMITIVE DATA TYPES AND STRINGS IN WRITING PROGRAMS
4.1 Declare numeric Boolean, character, string variables, and float and double, **int**

4.2 Choose the appropriate data type for a given situation

4.3 Identify the correct syntax and usage for constants and variables in a program
• Naming conventions
• Difference and usage

STANDARD 12.0 DEVELOP A PROGRAM

12.1 Use a program editor to enter and modify code

12.2 Identify correct input/output statements

12.3 Choose the correct method of assigning input to variables including data sanitization

STANDARD 14.0 UTILIZE AND CREATE COMMUNITY RESOURCES

14.1 Use standard library functions

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