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| **AP CSP Python with CodeX**  **Mission 3 Assignment** | | **Name:** |
| **Getting Started** | | |
| This Mission will light up those pixels in full color! You will also learn how to vary the speed of the color change. Your CodeX has 4 RGB LEDs along its top edge. You can set these LEDs to any color. Review the mission reminders. Then go to Mission 3 and get started. | | |
| **Mission 3 : Light Show Objectives** | | |
| Complete Objective 1 Read ALL the information. Take notes in the space provided.  What does RGB stand for?  What are the 8 pre-defined colors mentioned so far?  What are the numbers of the pixels? |  | |
| Complete Objective 2 Read ALL the information. Take notes in the space provided. |  | |
| Complete Objective 3 Read ALL the information. Take notes in the space provided.  What does “sequentially” mean? |  | |
| Complete Objective 4 Take notes in the space provided. |  | |
| Take the quiz. How did you do? |  | |
| Complete Objective 5 Take notes in the space provided.  What does the CodeSpace debugger let you do?  When does each line of code run? |  | |
| Complete Objective 6 Take notes in the space provided. |  | |
| Complete Objective 7 Take notes in the space provided. |  | |
| Complete Objective 8 Read ALL the information. Take notes in the space provided.  What is a **literal** (or ***literal number***)?  What is a **variable**?  Give an example of defining a variable:  Use CodeTrek to help you with the code. |  | |
| Take the quiz. How did you do? |  | |
| Complete Objective 9 Read ALL the information. Take notes in the space provided.  Use CodeTrek and the Hints to complete the program. |  | |
| Submit the completed Pixels1 program to the teacher. | | |