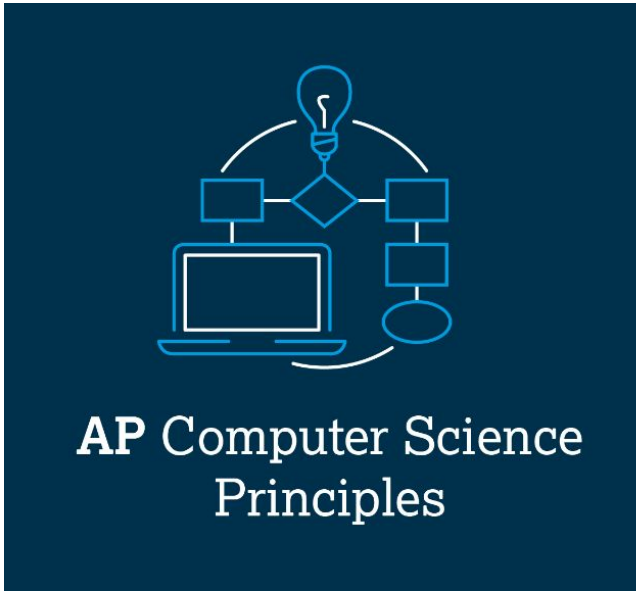
Create PT
Code Segment Practice

Personalized Project Reference

AP CSP Create Performance Task

Things to know about the Create PT:

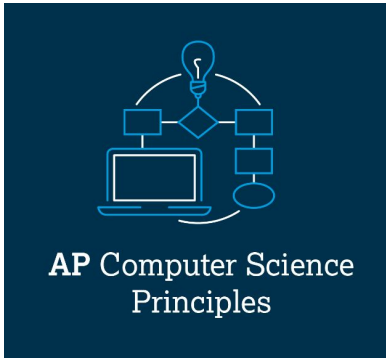
- You can work with a partner
- Your teacher cannot help you
- You cannot use an assigned program or Practice PT for your project, but it can be similar
- Your classmates can help you
- You will be given 9 hours of class time to work on the project



AP CSP Create Performance Task

Create PT specific requirements:

- Has input (button presses)
- Creates a list
- Uses a list in a meaningful way
- Has a function with a parameter
  - Parameter has an effect on the functionality of the procedure (Parameter used in if statement)
- Function has:
  - Selection (If statement)
  - Iteration (Loop)
- Has output (screen, pixels, audio, etc.)



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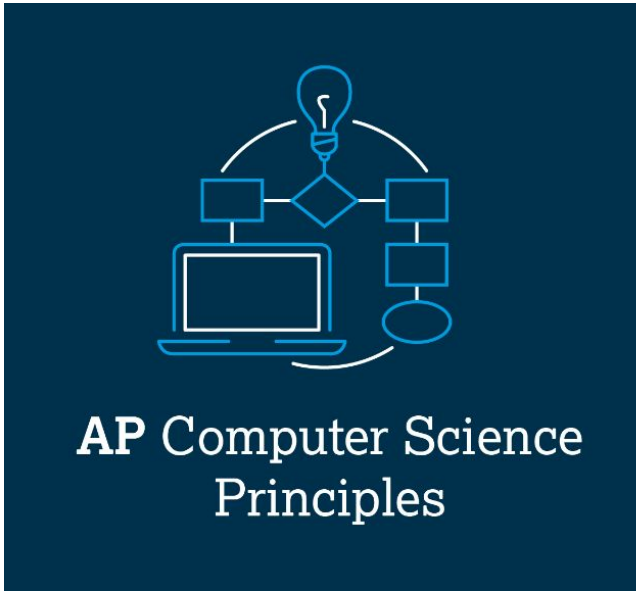
After you create your program, you will submit three things in the digital portfolio:

- PDF of your entire code
  - can have comments
- A video of your code working
- Code segments (snippets) of specific parts of the code
  - cannot have comments



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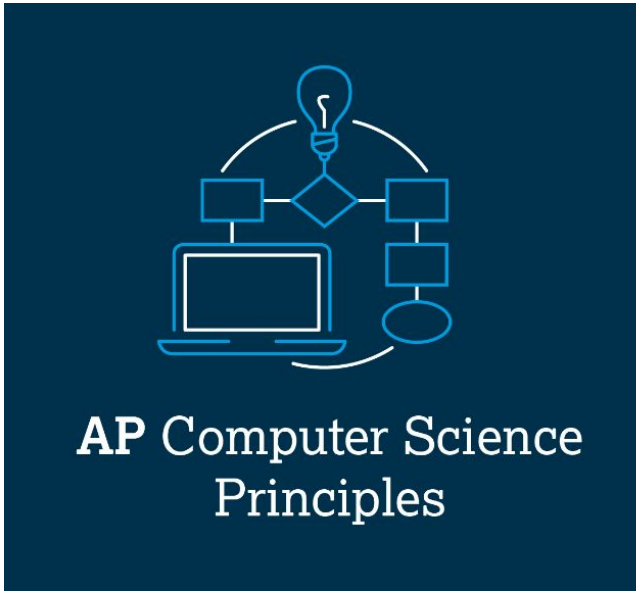
AP CSP Create Performance Task

For this lesson, you will focus on the Personalized Project Reference:

- Identifying specific parts of your code
- Making JPG images of the code
- Inserting them in a document

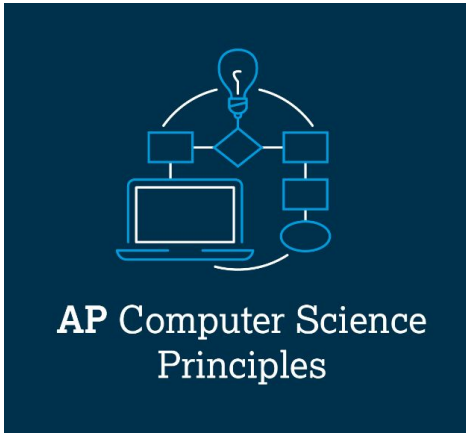
Note: *for the actual Create Performance Task, you will upload the images into the digital portfolio.*



Personalized Project Reference

The set of code segments you identify will be uploaded into the “Personalized Project Reference”

- The PPR (personalized project reference) will be printed for you on the day of the exam
- You will use the PPR to answer free-response questions as part of the exam



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From the student handout:

COMPONENT C: PERSONALIZED PROJECT REFERENCE (CREATED INDEPENDENTLY) To assist in responding to the written response prompts on exam day, submit required portions of your code by capturing and pasting program code segments you developed during the administration of this task. Screen captures should not be blurry, and text should be at least 10-point font size. Your code segments should not include any comments. These code segments will be made available to you on exam day only if this component is submitted as final in the AP Digital Portfolio by the deadline.

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From the student handout:

Procedure: Capture and paste two program code segments you developed during the administration of this task that contain a student-developed procedure that implements an algorithm used in your program and a call to that procedure.

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Code Segment #1

i. The first program code segment must be a student-developed procedure that:

- ☐ Defines the procedure's name and return type (if necessary)
- ☐ Contains and uses one or more parameters that have an effect on the functionality of the procedure
- ☐ Implements an algorithm that includes sequencing, selection, and iteration

Code Segment #2

ii. The second program code segment must show where your student-developed procedure is being called in your program.

Code Segment #3

List: Capture and paste two program code segments you developed during the administration of this task that contain a list (or other collection type) being used to manage complexity in your program.

i. The first program code segment must show how data have been stored in the list.

Code Segment #4

ii. The second program code segment must show the data in the same list being used, such as creating new data from the existing data or accessing multiple elements in the list, as part of fulfilling the program's purpose.

Create PT Practice #2

Go to CodeSpace.

Open your Create_PT_Practice2 program.

- If you have your name at the top in a comment, delete it.
- Download your code as a text file.
- Open the text file in Google Chrome.
- Go to File → Download → PDF document

This file is ready to upload into the digital portfolio. You will not do this, since this is practice. But you will do this step for your actual Create PT.

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Create PT Practice #2

- Delete any other comments you have in your code
- Identify the four code segments in your code and then:
- Create a snippet of the function with a parameter, loop and if statement
  - Save as **item1**
- Create a snippet of the function call
  - Save as **item2**
- Create a snippet of the list being created
  - Save as **item3**
- Create a snippet of the list being used
  - Save as **item4**

If you need help using the snipping tool, follow these slides

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Create PT Practice #2

Go to your assignment document

- Insert the image of each item into the corresponding box:
- First box: **item1**
- Second box: **item2**
- Third box: **item3**
- Fourth box: **item4**

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Create PT Practice #3

Go to CodeSpace.

Open your Create_PT_Practice3 program.

- If you have your name at the top in a comment, delete it.
- Download your code as a text file.
- Open the text file in Google Chrome.
- Go to File → Download → PDF document

This file is ready to upload into the digital portfolio. You will not do this, since this is practice. But you will do this step for your actual Create PT.

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Create PT Practice #3

- Delete any other comments you have in your code
- Identify the four code segments in your code and then:
- Create a snippet of the function with a parameter, loop and if statement
    - Save as **item1** *(it is okay to overwrite the previous item1)*
- Create a snippet of the function call
    - Save as **item2**
- Create a snippet of the list being created
    - Save as **item3**
- Create a snippet of the list being used
    - Save as **item4**

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Create PT Practice #3

Go to your assignment document

- Insert the image of each item into the corresponding box:
- First box: **item1**
- Second box: **item2**
- Third box: **item3**
- Fourth box: **item4**

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Create PT Practice #4

Go to CodeSpace.

Open your Create_PT_Practice4 program.

- If you have your name at the top in a comment, delete it.
- Download your code as a text file.
- Open the text file in Google Chrome.
- Go to File → Download → PDF document

This file is ready to upload into the digital portfolio. You will not do this, since this is practice. But you will do this step for your actual Create PT.

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Create PT Practice #4

- Delete any other comments you have in your code
- Identify the four code segments in your code and then:
- Create a snippet of the function with a parameter, loop and if statement
    - Save as **item1** *(it is okay to overwrite the previous item1)*
- Create a snippet of the function call
    - Save as **item2**
- Create a snippet of the list being created
    - Save as **item3**
- Create a snippet of the list being used
    - Save as **item4**

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Create PT Practice #4

Go to your assignment document

- Insert the image of each item into the corresponding box:
- First box: **item1**
- Second box: **item2**
- Third box: **item3**
- Fourth box: **item4**

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And now you practiced the code segment part

Congratulations!

By completing this assignment you have prepared for the PT by:

- Saving your entire code as a PDF
- Using the list in a meaningful way
- Creating a function with a parameter
- Calling the function
- Using sequence and selection in the function
- Using the parameter in an if statement

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And now you have your own create PT practice

Moving forward

You will continue to prepare for the Create PT by:

- Using iteration in the function
- Learning about global and local variables
- Learning when a parameter is needed

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