

THE PALMER CATHOLIC ACADEMY, SUMMER 2019
Computer Science Transition, Year 11 into 12

PLEASE NOTE YOU WILL ALSO HAVE TO DOWNLOAD
THE COMUTER SCIENCE INTRODUCTION TO TKINTER
PDF

Your Task	<p>Create a 'FLASH CARD' GUI program using the Tkinter library in Python.</p> <p>Pick a topic in computing (e.g. Computing Hardware) and create a program which has a series of 'buttons' and a 'text area'.</p> <p>When each button is clicked, information about that part of the topic is presented in the text area. An example is shown below.</p> <div data-bbox="459 936 1326 1704" style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"><p style="text-align: center; border-bottom: 1px solid black; margin-bottom: 5px;">Flash Cards - Computing Hardware</p><div style="display: flex; justify-content: space-between;"><div style="width: 30%;"><p style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">The CPU</p><p style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Memory</p><p style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">I/O Devices</p><p style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Motherboards</p><p style="border: 1px solid black; padding: 2px; margin-bottom: 5px; text-align: center;">Storage Devices</p></div><div style="width: 60%;"><p style="border: 1px solid black; padding: 5px; margin-top: 20px;">The CPU is responsible for..</p></div></div></div>
Your starting point	<ol style="list-style-type: none">1. Download Python 3.7.1 to your computer2. Tkinter (and, since Python 3.1, ttk) are included with all standard Python distributions. However if you have any issues: https://tkdocs.com/tutorial/install.html3. Create your GUI <p>Resources:</p>

	<ul style="list-style-type: none"> ● Attached PDF - Introduction to TKinter.pdf <p>Links to other helpful documents:</p> <ul style="list-style-type: none"> ● https://engmrk.com/wp-content/uploads/2018/01/Tkinter-Cheat-Sheet.pdf ● https://dzone.com/articles/python-gui-examples-tkinter-tutorial-like-geeks ● https://www.tutorialspoint.com/python3/python_gui_programming.htm <p>Online video tutorials</p> <ul style="list-style-type: none"> ● https://www.youtube.com/watch?v=whErCLh0-QU ● https://www.youtube.com/watch?v=cvBRhYeO7hc ● https://www.youtube.com/watch?v=_ISNlrR1nZU ● https://www.youtube.com/watch?v=VMP1oQOxfM0 ● https://www.youtube.com/watch?v=D8-snVfekto ● https://www.youtube.com/watch?v=7MQWCtTr0zA ● https://www.youtube.com/watch?v=-tbWoZSi3LU
<p>How your work will be assessed</p>	<p>Grade A: Create a simple GUI that includes:</p> <ul style="list-style-type: none"> ● Buttons ● Entry boxes ● Labels ● Commands added to buttons to call functions ● Menu bar (at least 2 drop down menus) OR Menu screen/s with buttons linked to other window frames ● At least 3 other additional features (eg. Spinners/Radio Buttons/Check Boxes/changing colours) <p>Grade B: Create a simple GUI that includes:</p> <ul style="list-style-type: none"> ● Buttons ● Entry boxes ● Spinners/Radio Buttons/Check Boxes ● Labels ● Commands added to buttons to call functions ● At least 2 other additional features (eg. Spinners/Radio Buttons/Check Boxes) <p>Grade C: Create a simple GUI that includes:</p> <ul style="list-style-type: none"> ● Buttons ● Entry boxes ● Labels ● Commands added to buttons to call functions ● At least 1 other additional feature (eg. Spinners/Radio Buttons/Check Boxes)

