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Project 2: Semester Proposal

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For the semester project, I chose to utilize my java skills by developing a Text to Binary converter. This converter involves encoding binary data in a sequence of characters and using ASCII codes to translate and represent numeric and alphabetic characters. The converter can be used to help those who struggle with learning binary code and want a fast and simple way to translate English text to binary code. The program will also be able to decode binary codes and translate it to readable English text. This can be made possible by creating a word bank of ASCII code and its binary supplements. I plan on implementing HTML and CSS to create a website that has two textboxes, one for English text and the other for binary numbers. The website would then use Java to convert and output the correct format and layout cleanly returning a text box that displays the converted text. The program will also analyze and review the characters written and return an error if the string inputted was invalid or non English characters displaying an error message. Furthermore, if the user is converting binary to text the program would verify that each binary statement is at least 8 bytes long and a valid binary string. Some of the code functions I intend to use are if, else and elseif which would be used to save information on the English alphabet and its binary supplement and return the correct value. If all goes well, I will be able to develop a program that will successfully convert text to binary code and vice versa.