```
File Edit Format Run Options Window Help
```

```
# Company program for sorting product codes
                                                                                         IDLE Shell 3.10.2
                                                                                                                                                                - □ X
# function to validate codes
# function to find out if there are any restrictions
                                                                                         File Edit Shell Debug Options Window Help
                                                                                             Python 3.10.2 (tags/v3.10.2:a58ebcc, Jan 17 2022, 14:12:15) [MSC v.1929 64 bit (
import valid codes
                                                                                            AMD64)] on win32
import invalid codes
                                                                                            Type "help", "copyright", "credits" or "license()" for more information.
import restricted codes
                                                                                             RESTART: C:\Users\Robson\COMP211\Mod6-9\Assignment3 KayleRobson COMP2211\produ
def main():
                                                                                             ct sorting.pv
                                                                                             Hello!
   # Inform the user what the program does
                                                                                            This program will process the company codes within 'Codes.txt'.
   print("Hello!")
                                                                                            You will find this in the same directory as the program.
   print("This program will process the company codes within 'Codes.txt'.")
                                                                                            Please update codes in 'Codes.txt' to test new codes.
    print ("You will find this in the same directory as the program.")
                                                                                            A valid code consists of:
    print("Please update codes in 'Codes.txt' to test new codes.")
                                                                                            1) 10 digits before before the hyphanted number code.
    print ("A valid code consists of: ")
                                                                                            2) Position 10 is letter
    print("1) 10 digits before before the hyphanted number code.")
                                                                                            3) Position 4 to 7 can only be digits.
   print("2) Position 10 is letter")
                                                                                            Example valid code: ABC1234UIO-14
   print ("3) Position 4 to 7 can only be digits.")
                                                                                            After the code has been validated.
    print("Example valid code: ABC1234UIO-14")
                                                                                             The program will determine if the code is restricted.
    print ("After the code has been validated.")
                                                                                             Restriction will be indicated with an 'R' in the 10th positon
    print ("The program will determine if the code is restricted.")
                                                                                             Restricted items are not allowed in country codes 2000 or more.
    print("Restriction will be indicated with an 'R' in the 10th position")
                                                                                             Once the program has iterated over the code a list will be printed.
    print("Restricted items are not allowed in country codes 2000 or more.")
                                                                                            The list will be called 'sorted codes.txt'.
    print ("Once the program has iterated over the code a list will be printed.")
                                                                                            The list will have 3 headings: Valid Code(s), Invalid Code(s)
    print("The list will be called 'sorted codes.txt'.")
                                                                                            Restricted Code(s)
    print("The list will have 3 headings: Valid Code(s), Invalid Code(s)\n" +
          "Restricted Code(s)")
    print('\n')
    print('\n')
                                                                                             File closed
    # Read product codes from text file
                                                                                            File printed to sorted codes.txt
    infile = open("Codes.txt", "r")
                                                                                        333
    file contents = infile.read()
    # Split list with \n to get a good list to iterate over
    company codes = file contents.split('\n')
    # mv functions to lists
    invalid = invalid codes.get invalid(company codes)
    valid = valid codes.get valid(company codes)
    restricted = restricted codes.get restricted(valid)
    # Loop to write code
                                                                                                                                                                      In: 4 Col: 0
    with open('sorted codes.txt', 'w') as sorted codes:
        sorted codes.write('Valid Codes(s)\n')
        sorted codes.write('----\n')
        for item in valid:
            enred codes write / 130 ml Sitem
                                                                                                                                                                                               Ln: 7 Col: 0
```

Type here to search











