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1  #For Loops Challenge 11: Binary Hexadecimal Converter App
2
3  print("Welcome to the Binary/Hexadecimal Converter App")
4
5  #Get user input and generate lists.
6  max_value = int(input("\nCompute binary and hexadecimal values up to the
7  following decimal number: "))
8  decimal = list(range(1, max_value+1))
9  binary = []
10 hexadecimal = []
11 for num in decimal:
12     binary.append(bin(num))
13     hexadecimal.append(hex(num))
14 print("Generating lists...Complete!")
15
16 #Get slicing index from user.
17 print("\nUsing slices, we will now show a portion of each list.")
18 lower_range = int(input("What decimal number would you like to start at: "))
19 upper_range = int(input("What decimal number would you like to stop at: "))
20
21 #Slice through each list individually
22 print("\nDecimal values from " + str(lower_range) + " to " + str(upper_range) +
23 ":")
24 for num in decimal[lower_range-1:upper_range]:
25     print(num)
26
27 print("\nBinary values from " + str(lower_range) + " to " + str(upper_range) +
28 ":")
29 for num in binary[lower_range-1:upper_range]:
30     print(num)
31
32 print("\nHexadecimal values from " + str(lower_range) + " to " + str(upper_range)
33 + ":")
34 for num in hexadecimal[lower_range-1:upper_range]:
35     print(num)
36
37 #Output the whole list to the screen
38 input("\nPress Enter to see all values from 1 to " + str(max_value) + ".")
39 print("Decimal----Binary----Hexadecimal")
40 print("-----")
41 for d, b, h in zip(decimal, binary, hexadecimal):
42     print(str(d) + "----" + str(b) + "----" + str(h))

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