

```

1 """
2 Decimal to Binary
3 Your task is to make a function that will convert a whole number in the range 0 to 255 into
  an 8 digit string, to represent that number in binary.
4
5 Eg. 12 in decimal would output "00001100"
6 """
7
8 numbers = [128,64,32,16,8,4,2,1]
9
10 def get_number(min, max):
11     done = False
12
13     while not done:
14         num = input(f"Enter number ({min} - {max}): ")
15         try:
16             num = int(num)
17
18             if num < min or num > max:
19                 print(f"Number out of range ({min} to {max})")
20             else:
21                 done = True
22         except:
23             print("Please enter a whole number")
24
25     return num
26
27 def dec_to_bin_8():
28     n = get_number(0, 255)
29
30     bin_nums = [128,64,32,16,8,4,2,1]
31     output = ""
32
33     for i in range(0,8):
34         if n >= bin_nums[i]:
35             output = output + "1"
36             n = n - bin_nums[i]
37         else:
38             output = output + "0"
39     return output
40
41
42 print(dec_to_bin_8())

```