

3A\00_computer_science_exercises\05_functions\functionsPractice.py

```
1  # Functions Practice, Ryan Kelley, v0.0
2
3  import random
4
5  def helloWorldMulti(): # FUNCTION SIGNATURE
6      """This function will output Hello, World! in a language the user choose. """ # DOCSTRING \
7      # print a list of languages to the screen, at least three but no more than five.
8      print("""
9          Welcome to the Hello, World! Translator
10         The following languages are available.
11         [E]nglish
12         [S]panish
13         [F]rench
14         [G]erman
15         [T]agalog
16         """)
17
18     # allow the user to select (input) a choice for the language.
19     language = input("What language do you want?\n Please type the first letter of the language you want.\n").lower()
20
21     # print "Hello, World!" to the screen in that language.
22
23     if language == "e":
24         print("In English:\nHello, World!\n")
25     elif language == "s":
26         print("In Spanish:\nHola, Mundo!\n")
27     elif language == "f":
28         print("In French:\nBon jour, Le Monde!\n")
29     elif language == "g":
30         print("In German:\n, Hallo, Walt!\n")
31     else:
32         print("In Somali:\n, Haye caalamkow!\n")
33
34 #helloWorldMulti() # FUNCTION CALL
35
36 # Function to Determine Even / Odd Numbers
37 argument1 = random.randint(-1000, 1000)
38
39 def isEven(argument1: int) -> bool: # Requires one ARGUMENT (argument1) and RETURNS a Boolean value.
40     """Determines if an integer value is even or odd."""
41     if argument1 % 2 == 0:
42         return True
43     else:
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44         return False
45
46 print(isEven(argument1))
47
48 # Function with Multiple Arguments
49 def canRideRollerCoaster(age: int, height: int) -> bool:
50     if age > 10 and height > 4:
51         print("You can ride.\n")
52         return True
53     else:
54         print("You cannot ride.\n")
55         return False
56
57 canRideRollerCoaster(4, 10) # Arguments must be passed in the same order as the function signature indicates.
58
```