

Program Code:

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"""
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This code was created with a collaborative peer in its entirety
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This interactive program allows users to guess a country based on the  
difficulty level  
they have chosen. When doing so, they are presented with up to three hints  
and enter their  
guesses into the program. After the end of an attempt, players are then  
presented with the  
final choice of continuing the game or ending it.  
"""
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import random
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def play_again():
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#This function starts a new level
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    while True: #while loop
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        level = input("Choose your difficulty: 'easy', 'medium', or 'hard'
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")
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        #The user must enter 'easy', 'medium', or 'hard' based on their  
desired difficulty level. This determines the parameter for the  
'difficulty_level function'
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        difficulty_level(level) #Parameter: 'level'
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        #At the end of each round, a player is presented with the options  
of playing again or ending the game
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        play_again = input("Would you like to play again? (Y)es/(N)o: ")
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        if play_again != 'Y':
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            print("Thanks for playing! Goodbye!")
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            break
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#Function - presents the user with the introductory instructions
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def guess_the_country():
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    print("Welcome to Guess the Country!")
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    print("The objective of this game is...")
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    print("When you type your guess, make sure to insert the PROFESSIONAL  
name with proper capitalization...etc")
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#The following lists showcase what countries fall into each difficulty  
ranking
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easy_list = ["China", "Canada", "France"]
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medium_list = ["India", "Saudi Arabia", "Morocco"]
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hard_list = ["Burkina Faso", "Lithuania", "Myanmar"]
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#The following lists showcase all the possible questions for each country  
#questions for China
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questions = ["This country is the second most populated in the world.",
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"This country has only one time zone.", "This country uses the currency
Yuan."]
#questions for France
questions_france = ["This country is the world's most popular tourist
destination.",
"This country eats around 30,000 tons of snails a year.",
"This country is known for the food baguette."]
#questions for Canada
questions_canada = ["This country takes hockey very seriously.",
"This country has two national languages: English + French.",
"This country has a maple leaf of their flag."]
#questions for India
questions_india = ["This country is the first country to mine diamonds.",
"This country is the second largest English-speaking country in the
world.",
"This country was where Pi was first calculated."]
#questions for Saudi Arabia
questions_sa = ["This country is home to the world's largest airport.",
"This country is the largest country in the Middle East.", "This country's
capital is Riyadh."]
#Morocco questions
questions_morocco = ["This country is known for its architecture.",
"This country is almost the same size as California.", "This country
speaks Arabic and Berber."]
#Burkina Faso questions
questions_bf = ["This country's official language is French.",
"This country's majority exportation goes to Switzerland.",
"This country's capital is Ouagadougou."]
#Lithuania questions
questions_lithuania = ["This country has two independence days.",
"This country is bounded by Latvia & Belarus.", "This country practices
Roman Catholicism."]
#Myanmar questions
questions_myanmar = ["This country was formally known as Burma.",
"This country's currency is Kyat.", "This country's official language is
Burmese."]

#Randomizes the countries presented in each list
random_country_easy = random.choice(easy_list)
random_country_medium = random.choice(medium_list)
random_country_hard = random.choice(hard_list)

def difficulty_level(level): #function with parameter
    if level == "easy":
        #If the user inputs 'easy' for as the difficulty choice, the following
        questions are presented
        print("Welcome to easy level")
        if random_country_easy == "China":
            china_questions()
        if random_country_easy == "France":

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        france_questions()
    if random_country_easy == "Canada":
        canada_questions()
if level == "medium":
    print("Welcome to medium level")
    if random_country_medium == "India":
        india_questions()
    if random_country_medium == "Saudi Arabia":
        sa_questions()
    if random_country_medium == "Morocco":
        morocco_questions()
if level == "hard":
    print("Welcome to hard level")
    if random_country_hard == "Burkina Faso":
        bf_questions()
    if random_country_hard == "Lithuania":
        lithuania_questions()
    if random_country_hard == "Myanmar":
        myanmar_questions()

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#The functions below show what questions would appear if the random generator chooses the respective country.

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def china_questions():
    print(questions[0])
    # Here we call the first element in the list (the first hint)
    user_guess = input("Your guess: ")
    #The user then guesses what country it is based on the first hint.
    correct_answer_china = "China"
    if user_guess == correct_answer_china:
        print("You are correct!")
        #If the user is correct it prints this statement and asks the user
if they would like to play again
        if user_guess != correct_answer_china:
            print("Oops! That is incorrect. Here's your next hint: ") #If the
user gets it incorrect it continues the rest of the code which adds a new
hint
            print(questions[1])
            user_guess = input("Your guess: ")
            if user_guess == correct_answer_china:
                print("You are correct!")
            if user_guess != correct_answer_china:
                print("Oops! That is incorrect. Here's your final hint: ")
                print(questions[2])
                user_guess = input("Your guess: ")
                if user_guess == correct_answer_china:
                    print("You are correct!")
                if user_guess != correct_answer_china:
                    print("Incorrect! The correct country was China. Try again
next time!")

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def france_questions():
    print(questions_france[0])
    user_guess = input("Your guess: ")
    correct_answer_france = "France"
    if user_guess == correct_answer_france:
        print("You are correct!")
    if user_guess != correct_answer_france:
        print("Oops! That is incorrect. Here's your next hint: ")
        print(questions_france[1])
        user_guess = input("Your guess: ")
        if user_guess == correct_answer_france:
            print("You are correct!")
        if user_guess != correct_answer_france:
            print("Oops! That is incorrect. Here's your final hint: ")
            print(questions_france[2])
            user_guess = input("Your guess: ")
            if user_guess == correct_answer_france:
                print("You are correct!")
            if user_guess != correct_answer_france:
                print("Incorrect! The correct country was France. Try
again next time!")

def canada_questions():
    print(questions_canada[0])
    user_guess = input("Your guess: ")
    correct_answer_canada = "Canada"
    if user_guess == correct_answer_canada:
        print("You are correct!")
    if user_guess != correct_answer_canada:
        print("Oops! That is incorrect. Here's your next hint: ")
        print(questions_canada[1])
        user_guess = input("Your guess: ")
        if user_guess == correct_answer_canada:
            print("You are correct!")
        if user_guess != correct_answer_canada:
            print("Oops! That is incorrect. Here's your final hint: ")
            print(questions_canada[2])
            user_guess = input("Your guess: ")
            if user_guess == correct_answer_canada:
                print("You are correct!")
            if user_guess != correct_answer_canada:
                print("Incorrect! The correct country was Canada. Try
again next time!")

def india_questions():
    print(questions_india[0])
    user_guess = input("Your guess: ")
    correct_answer_india = "India"
    if user_guess == correct_answer_india:
        print("You are correct!")

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if user_guess != correct_answer_india:
    print("Oops! That is incorrect. Here's your next hint: ")
    print(questions_india[1])
    user_guess = input("Your guess: ")
    if user_guess == correct_answer_india:
        print("You are correct!")
    if user_guess != correct_answer_india:
        print("Oops! That is incorrect. Here's your final hint: ")
        print(questions_india[2])
        user_guess = input("Your guess: ")
        if user_guess == correct_answer_india:
            print("You are correct!")
        if user_guess != correct_answer_india:
            print("Incorrect! The correct country was India. Try again
next time!")

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def sa_questions():
    print(questions_sa[0])
    user_guess = input("Your guess: ")
    correct_answer_sa = "Saudi Arabia"
    if user_guess == correct_answer_sa:
        print("You are correct!")
    if user_guess != correct_answer_sa:
        print("Oops! That is incorrect. Here's your next hint: ")
        print(questions_sa[1])
        user_guess = input("Your guess: ")
        if user_guess == correct_answer_sa:
            print("You are correct!")
        if user_guess != correct_answer_sa:
            print("Oops! That is incorrect. Here's your final hint: ")
            print(questions_sa[2])
            user_guess = input("Your guess: ")
            if user_guess == correct_answer_sa:
                print("You are correct!")
            if user_guess != correct_answer_sa:
                print("Incorrect! The correct country was Saudi Arabia.
Try again next time!")

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def morocco_questions():
    print(questions_morocco[0])
    user_guess = input("Your guess: ")
    correct_answer_morocco = "Morocco"
    if user_guess == correct_answer_morocco:
        print("You are correct!")
    if user_guess != correct_answer_morocco:
        print("Oops! That is incorrect. Here's your next hint: ")
        print(questions_morocco[1])
        user_guess = input("Your guess: ")
        if user_guess == correct_answer_morocco:
            print("You are correct!")

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        if user_guess != correct_answer_morocco:
            print("Oops! That is incorrect. Here's your final hint: ")
            print(questions_morocco[2])
            user_guess = input("Your guess: ")
            if user_guess == correct_answer_morocco:
                print("You are correct!")
            if user_guess != correct_answer_morocco:
                print("Incorrect! The correct country was Morocco. Try
again next time!")

def bf_questions():
    print(questions_bf[0])
    user_guess = input("Your guess: ")
    correct_answer_bf = "Burkina Faso"
    if user_guess == correct_answer_bf:
        print("You are correct!")
    if user_guess != correct_answer_bf:
        print("Oops! That is incorrect. Here's your next hint: ")
        print(questions_bf[1])
        user_guess = input("Your guess: ")
        if user_guess == correct_answer_bf:
            print("You are correct!")
        if user_guess != correct_answer_bf:
            print("Oops! That is incorrect. Here's your final hint: ")
            print(questions_bf[2])
            user_guess = input("Your guess: ")
            if user_guess == correct_answer_bf:
                print("You are correct!")
            if user_guess != correct_answer_bf:
                print("Incorrect! The correct country was Burkina Faso.
Try again next time!")

def lithuania_questions():
    print(questions_lithuania[0])
    user_guess = input("Your guess: ")
    correct_answer_lithuania = "Lithuania"
    if user_guess == correct_answer_lithuania:
        print("You are correct!")
    if user_guess != correct_answer_lithuania:
        print("Oops! That is incorrect. Here's your next hint: ")
        print(questions_lithuania[1])
        user_guess = input("Your guess: ")
        if user_guess == correct_answer_lithuania:
            print("You are correct!")
        if user_guess != correct_answer_lithuania:
            print("Oops! That is incorrect. Here's your final hint: ")
            print(questions_lithuania[2])
            user_guess = input("Your guess: ")
            if user_guess == correct_answer_lithuania:
                print("You are correct!")

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        if user_guess != correct_answer_lithuania:
            print("Incorrect! The correct country was Lithuania. Try
again next time!")
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```
def myanmar_questions():
    print(questions_myanmar[0])
    user_guess = input("Your guess: ")
    correct_answer_myanmar = "Myanmar"
    if user_guess == correct_answer_myanmar:
        print("You are correct!")
    if user_guess != correct_answer_myanmar:
        print("Oops! That is incorrect. Here's your next hint: ")
        print(questions_myanmar[1])
        user_guess = input("Your guess: ")
        if user_guess == correct_answer_myanmar:
            print("You are correct!")
        if user_guess != correct_answer_myanmar:
            print("Oops! That is incorrect. Here's your final hint: ")
            print(questions_myanmar[2])
            user_guess = input("Your guess: ")
            if user_guess == correct_answer_myanmar:
                print("You are correct!")
            if user_guess != correct_answer_myanmar:
                print("Incorrect! The correct country was Myanmar. Try
again next time!")
```

#guess_the_country() is first called to show the introductory instructions of the game

guess_the_country()

#The function play_again() is called to present a user the ability to input whether they would like to continue or end the game

play_again()