**Rock Guessing Game by Julian Lo**

**03411940000022**

Data :

A close up of a rock

Description automatically generatedA close up of food

Description automatically generatedA piece of cake

Description automatically generated

# This is Rock Guessing (text-based) Game created by Julian Lo

from PIL import Image # first three instruction will import what i need to show picture in script from libraries

from IPython.display import Image

from IPython.display import clear\_output

print("type start() to start the game")

def start(): #define function so we can call this function again when the game is over

mulai = input("Type anything to start the game") #let the game begin with typing anything

# Variables

a = ("composed mainly of calcium-rich plagioclase feldspar (usually labradorite or bytownite) and pyroxenes (usually augite)");

b = ("intrusive igneous rock, coarse-grained, dark-colored");

c = ("the most abundant of the sedimentary rocks, accounting for roughly 70 percent of this rock type in the crust of the Earth");

d = ("fine-grained, laminated sedimentary rocks");

clues = ("clastic sedimentary rock that are composed of large angular fragments (over two millimeters in diameter");

gabbro = Image(filename='gabbro.jpg');

shale = Image(filename='shale.jpg');

breccia = Image(filename='breccia.jpg');

def start(): #define function so we can call this function again when the game is over

mulai = input("Type anything to start the game") #let the game begin with typing anything

if mulai != "Lets": # if input value of variable 'mulai' not equal to string 'Lets', the loop start

name = input("what is your name ? ") #asking name

if name != "xxxxx": # if input value of variable 'name' not equal to string 'xxxxx', the loop start

print("This is rock guessing game, you have 2 clues and 3 chance every round")

display(gabbro) # display picture in variable gabbro

print("Hi!, i am the rock in the picture, who am i ?")

first\_round = input("any doubt ? type a or b to see clues!, type space to guess it: ") #asking to input a, b, or space to guess it

if first\_round == "a": #if input is a, this function begin

print(a)

first\_round = input("any doubt ? type a or b to see clues!, type space to guess it: ")

if first\_round == "b": #if input is b, this function begin

print(b)

first\_round = input("any doubt ? type a or b to see clues!, type space to guess it: ")

if first\_round == "gabbro": #if input is 'gabbro', this function begin

print("That's Right!")

second\_round = input("type anything to continue") # this input variable will give instruction to continue the game by typing anything

if first\_round == " ":

secret\_word = "gabbro" # the right answer

guess = ""

guess\_count = 0

guess\_limit = 3 # this will give the player 3 chance to guess

out\_of\_guesses = False

while guess != secret\_word and not(out\_of\_guesses): # loop while guess is wrong and still True(not out of guesses)

if guess\_count < guess\_limit:

guess = input("Enter a guess: ")

guess\_count += 1 # each wrong answer will be incremented by 1, (first wrong = 0+1, second = 1+1, third = 2 + 1)

# player can guess it max : 3 times

else:

out\_of\_guesses = True

if out\_of\_guesses: #if player out of guess, this function will start

print("don't be sad, there's still two rounds ahead!")

second\_round = input("type anything to continue")

else: #if the answer is right and not out of guess, this function start

print("That's Right!")

second\_round = input("type anything to continue") #this input variable will initiate to start the next round by typing anything

if first\_round != "a" and first\_round != "b" and first\_round != " " and first\_round != "gabbro":

#if the players input something outside of the instruction, this function start

print("oops, don't do it again!, you are losing the round")

print("the answer is gabbro")

second\_round = input("type anything to continue")

#There are three rounds in this game. The second and third round have the same function with first round, just another data of the rock.

while second\_round != "second\_round":

display(shale)

print("who am i ?")

sec\_round = input("any doubt ? type c or d to see clues!, type space to guess it: ")

if sec\_round == "c":

print(a)

sec\_round = input("any doubt ? type c or d to see clues!, type space to guess it: ")

if sec\_round == "d":

print(b)

sec\_round = input("any doubt ? type c or d to see clues!, type space to guess it: ")

if sec\_round == "shale":

print("That's Right!")

third\_round = input("type anything to continue")

if sec\_round == " ":

secret\_word = "shale" # the right answer

guess = ""

guess\_count = 0

guess\_limit = 3

out\_of\_guesses = False

while guess != secret\_word and not(out\_of\_guesses): # loop while guess is wrong and still True(not out of guesses)

if guess\_count < guess\_limit:

guess = input("Enter a guess: ")

guess\_count += 1

else:

out\_of\_guesses = True

if out\_of\_guesses:

print("don't be sad, there's still one rounds ahead!")

third\_round = input("type anything to continue")

else:

print("That's Right!")

third\_round = input("type anything to continue")

if sec\_round != "c" and sec\_round != "d" and sec\_round != " " and sec\_round != "shale":

print("oops, don't do it again!, you are losing the round")

print("the answer is shale")

third\_round = input("type anything to continue")

while third\_round != "third\_round":

display(breccia)

t\_round = input("this is finale, you only have one clues! type clues to see it or space to guess it")

if t\_round == "clues":

print(clues)

t\_round = input("type space to guess it: ")

if t\_round == "breccia":

print("That's Right!")

print("YOU WIN")

restart = input("press space to play again ") #This function will ask player if they want to play the game again

if restart == " ": # this function will restart the game by clearing cell output and calling function 'start' that we create earlier in script

clear\_output()

start()

if t\_round == " ":

secret\_word = "breccia" # the right answer

guess = ""

guess\_count = 0

guess\_limit = 3

out\_of\_guesses = False

while guess != secret\_word and not(out\_of\_guesses): # loop while guess is wrong and still True(not out of guesses)

if guess\_count < guess\_limit:

guess = input("Enter a guess: ")

guess\_count += 1

else:

out\_of\_guesses = True

if out\_of\_guesses:

print("don't be sad, you can play it again by typing space! ")

restart = input("press space to play again ") #This function will ask player if they want to play the game again

if restart == " ": # this function will restart the game by clearing cell output and calling function 'start' that we create earlier in script

clear\_output()

start()

else:

print("That's Right!")

restart = input("press space to play again ") #This function will ask player if they want to play the game again

if restart == " ": # this function will restart the game by clearing cell output and calling function 'start' that we create earlier in script

clear\_output()

start()

if t\_round != " " and t\_round != "clues" and t\_round != "breccia":

print("oops, you lose, don't be sad, you can play it again by typing space")

print("the answer is breccia")

restart = input("press space to play again ")#This function will ask player if they want to play the game again

if restart == " ": # this function will restart the game by clearing cell output and calling function 'start' that we create earlier in script

clear\_output()

start()