## CODE:

## (Game.py)

if result:

42

print("Login successful")

```
import os
    import mysql.connector as conn
    db = conn.connect(host="localhost", user="root", password="tiger", autocommit=True)
    cursor = db.cursor()
    def checkDatabase():
        cursor.execute("SHOW DATABASES")
         a = cursor.fetchall()
10
        if ("guess_the_number",) not in a:
11
             cursor.execute("CREATE DATABASE guess the number")
12
             cursor.execute("USE guess_the_number")
13
             cursor.execute("CREATE TABLE users(username char(50) PRIMARY KEY NOT NULL, password char(50) NOT
14
            NULL)")
             cursor.execute("CREATE TABLE scores(username char(50), score int, date DATE, foreign key
             (username) references users(username))")
    checkDatabase()
17
    cursor.execute("USE guess the number")
18
19
20 \( \text{def signUp():} \)
         username = input("Enter username: ")
21
         cursor.execute("SELECT * FROM users WHERE username = %s", (username,))
22
         result = cursor.fetchone()
         if result:
24 ~
             print("Username already exists. Please choose a different username.")
25
             return False
26
27
         password = input("Enter password: ")
28
29
         cursor.execute("INSERT INTO users VALUES (%s, %s)", (username, password))
30
         print("Account created successfully")
         return True
35 ~ def login():
         username = input("Enter username: ")
         password = input("Enter password: ")
38
         cursor.execute("SELECT * FROM users WHERE username = %s AND password = %s", (username, password))
40
         result = cursor.fetchone()
```

```
import branch
            branch.main(username)
            return True
        else:
             print("Invalid username or password")
48
            return False
50 ∨ while True:
        print('''
            Press 1 to create account
            Press 2 to login to an existing account
            Press 3 to exit
        UI = input("Enter your choice: ")
        if UI == "1":
            while True:
                r = signUp()
                if r:
                    break
```

## (Branch.py)

```
import mysql.connector as conn
import random
import datetime

db = conn.connect(host="localhost", user="root", password="tiger", autocommit=True,
    database="guess_the_number")

cursor = db.cursor()

substunctions of the main start here

'''

def game_loop(username):

number_to_guess = random.randint(1, 100)

chances = 10

print(f"Welcome {username} to the Guess the Number game!")
print("I'm thinking of a number between 1 and 100. You have 10 chances to guess it.")

while chances > 0:
```

```
Click to add a breakpoint ss = int(input("Enter your guess: "))
             if guess < number_to_guess - 30:</pre>
                 print("Your number is very small. Try again.")
             elif guess > number_to_guess + 30:
                 print("Your number is very large. Try again.")
             elif guess < number_to_guess - 20:</pre>
                 print("Your number is small. Try again.")
             elif guess > number_to_guess + 20:
                 print("Your number is large. Try again.")
             elif guess < number_to_guess:</pre>
                 print("Your number is a little small. Try again.")
             elif guess > number_to_guess:
                 print("Your number is a little large. Try again.")
             else:
                 print(f"Congratulations, {username}! You guessed the number correctly.")
                 score = chances
40
                 break
             chances -= 1
```

```
Click to add a breakpoint
             print(f"Sorry, {username}. You ran out of chances. The number was {number_to_guess}")
45
             score = 0
         print(f"Your final score is: {score}")
         cursor.execute("INSERT INTO scores VALUES (%s, %s, %s)", (username, score, datetime.datetime.now().
         strftime('%Y-%m-%d')))
    def score(username):
         cursor.execute("SELECT score,date FROM scores WHERE username = %s", (username,))
         scores = cursor.fetchall()
         for i in scores:
             print(f"{i[0]} points achieved on {i[-1]}")
    def highscore(username):
         cursor.execute("SELECT score,date FROM scores WHERE username = %s", (username,))
         highscore = cursor.fetchall()
         x = (max(highscore))
```

```
print(f"Your highscore is {x[0]} on {x[1]}")

def clear_score(username):
    cursor.execute("DELETE FROM scores WHERE username = %s", (username,))
    print("Your score is cleared.")

def delete_account(username):
    cursor.execute("DELETE FROM scores WHERE username = %s", (username,))
    cursor.execute("DELETE FROM users WHERE username = %s", (username,))
    print("Your account is deleted.")

SUBFUNCTIONS OF THE MAIN END HERE
'''

SUBFUNCTIONS OF THE MAIN END HERE
''''
```

```
main(username):
         while True:
             print("""
81 ~
             Commands -->
             start - Start the game
             score - Show the score
             highscore - Show the highscore
             clear_score - Clear the score
             delete_account - Delete the account
             exit - Exit the game
             """)
             ui = input("Enter your command: ")
             if ui == "start":
                 game_loop(username)
             elif ui == "score":
                 score(username)
             elif ui == "highscore":
                 highscore(username)
             elif ui == "clear score":
100
                 clear_score(username)
             elif ui == "delete account":
                  delete_account(username)
                  break
              elif ui == "exit":
                  print("You are exiting the game.")
              else:
```

print("Invalid command.")

108

## **OUTPUT**

```
PS C:\Users\krish\OneDrive\Documents\PROJECT> python -u "c:\Users\krish\OneDrive\Documents\PROJECT\Game.py"
          Press 1 to create account
          Press 2 to login to an existing account
          Press 3 to exit
 Enter your choice: 1
 Enter username: krishanu_gamer
 Enter password: pass123
 Account created successfully
          Press 1 to create account
          Press 2 to login to an existing account
          Press 3 to exit
 Enter your choice: 2
 Enter username: krishanu_gamer
 Enter password: pass123
 Login successful
        Commands -->
        start - Start the game
        score - Show the score
        highscore - Show the highscore
        clear_score - Clear the score
        delete_account - Delete the account
        exit - Exit the game
 Enter your command: start
 Welcome krishanu gamer to the Guess the Number game!
 I'm thinking of a number between 1 and 100. You have 10 chances to guess it.
 Enter your guess: 60
 Your number is large. Try again.
 Enter your guess: 40
 Your number is a little large. Try again.
 Enter your guess: 35
Your number is a little small. Try again.
 Enter your guess: 37
 Your number is a little small. Try again.
 Enter your guess: 38
 Your number is a little small. Try again.
 Enter your guess: 39
 Congratulations, krishanu_gamer! You guessed the number correctly.
 Your final score is: 5
        Commands -->
        start - Start the game
        score - Show the score
        highscore - Show the highscore
        clear_score - Clear the score
        delete_account - Delete the account
        exit - Exit the game
Enter your command: score
5 points achieved on 2024-08-18
        Commands -->
        start - Start the game
        score - Show the score
        highscore - Show the highscore
        clear_score - Clear the score
        delete_account - Delete the account
        exit - Exit the game
Enter your command: highscore
Your highscore is 5 on 2024-08-18
```

Commands -->
start - Start the game
score - Show the score
highscore - Show the highscore
clear\_score - Clear the score
delete\_account - Delete the account
exit - Exit the game

Enter your command: clear\_score
Your score is cleared.

Commands -->
start - Start the game
score - Show the score
highscore - Show the highscore
clear\_score - Clear the score
delete\_account - Delete the account
exit - Exit the game

Enter your command: delete\_account
Your account is deleted.

TOUL ACCOUNT ID ACTOCCA.

Press 1 to create account Press 2 to login to an existing account Press 3 to exit

Enter your choice: 3
Exited