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In [8]: ## Guess a number is a game that prompts a player to guess a number between 0 and 9, which is randomly generated by the system
         # When the input given by the user matches the number generated by the system then the user wins. The game should go as follows:
         # Guess the number: 5
         ### Sorry, try again
         # Guess the number: 3
         ###Sorry, try again
         # Guess the number: 8
         ### You got it right! Congo!
         import random
         def guess_number():
             number=random.randint(0,9)
             while True:
                 user=(eval(input("guess the number (between 0 to 9):")))
                 if user==number:
                     print("you got it right!congratulations!")
                     break
                 else:
                     print("sorry,try again")
         guess_number()
         guess the number (between 0 to 9):5
         sorry, try again
         guess the number (between 0 to 9):3
         sorry, try again
         guess the number (between 0 to 9):7
         sorry, try again
         guess the number (between 0 to 9):8
         sorry, try again
         guess the number (between 0 to 9):9
         you got it right!congratulations!
In [10]; # Make an improvement to the Guess a number game. Guide the user where they are standing and limit the number of attempts to 3.
         # For example, the game should go like this:
         import random
         def guess_the_number():
             secret_number = random.randint(0,9)
             attempts = 3
             while attempts > 0:
                 user_guess = int(input("guess the number (between 0 and 9): "))
                 if user_guess == secret_number:
                     print("congratulations! you got it right")
                     break
                 elif user_guess < secret_number:</pre>
                     print("Too low")
                 else:
                     print("Too high")
                 attempts -= 1
                 print(f"Attempts left: {attempts}")
             if attempts == 0:
                 print("sorry,you lost! The correct number was:", secret_number)
         guess_the_number()
         guess the number (between 0 and 9): 5
         Too low
         Attempts left: 2
         guess the number (between 0 and 9): 8
         Too high
         Attempts left: 1
         guess the number (between 0 and 9): 7
         congratulations! you got it right
In [11]: # Let us make the above game a little more interesting by converting it into a gambling problem.suppose that a player starts
          # with Rs. 1,000. If a player guess the number in his first chance then he will be given a prize of Rs.5000 if he requires
         # 2 attempts then he will get a prize of Rs.1000.if he loses then he will lose Rs.500.For example the game should go like this:
         # you have a cash of Rs.1000 with you
         # guess the number:8
         # Too high
         # guess the number:3
         # you have just won Rs.1000
         # your balance:Rs.2000
         import random
         def guess_number():
             balance="1000"
             print("cash 1000 with you:")
             number=random.randint(1,10)
             for attempts in range(1,3):
                 guess=eval(input("guess the number:"))
                 if guess_number==number:
                     if attempts==1:
                         prize=5000
                         print("congratutaltions! you guess the number in your first attempt:")
                     elif attempt==2:
                         prize=1000
                         print("congratutaltions! you guess the number in your second attempt:")
                     break
                 elif guess<number:</pre>
                     print("too high")
                 else:
                     print("too low")
             else:
                 prize=-500
                 print("sorry, you couldnot guess the number {}:".format(number))
                 balance=prize
                 print("you have just {}:".format(prize))
                 print("you balance {}:".format(balance))
         guess_number()
         cash 1000 with you:
         guess the number:500
         too low
         guess the number:1000
         too low
         sorry, you couldnot guess the number 8:
         you have just -500:
         you balance -500:
In [13]: # Suppose that a player wants to play a game which requires him Rs. 1,000 to start. If the current balance in his account is
         # less than Rs. 1,000 he needs to withdraw the extra money from his e-wallet
         # Note that if the sum of money in his courrent account and the amount withdrawn is greater than or equal to Rs.1000 then he can
         # start playing the game. However if the sum is less than Rs.1000 then the program should keep displaying the user the messge
         # "You still do not have enough money to start playing." and keep prompting the user to withdraw money unless it crosses Rs.1000
         # Once ready, i.e. if his current account balance crosses Rs. 1,000, it will display a message "Now, you are ready to play the
         # game." Your program should also display the account balance and the current amount in the e-wallet.
         def play_game(account_balance, e_wallet_balance):
             while account_balance + e_wallet_balance < 1000:</pre>
                 print("You still do not have enough money to start playing:")
                 withdraw_amount = int(input("Enter the amount you want to withdraw: "))
                 if e_wallet_balance >= withdraw_amount:
                     account_balance += withdraw_amount
                     e_wallet_balance -= withdraw_amount
                 else:
                     print("Insufficient funds in e-wallet. Please try again.")
                 print("Account Balance: Rs. {account_balance}")
                 print("E-Wallet Balance: Rs. {e_wallet_balance}")
             print("Now, you are ready to play the game.")
             print("Account Balance: Rs. {}:".format(account_balance))
             print("E-Wallet Balance: Rs. {}:".format(e_wallet_balance))
         initial_account_balance = 200
         initial_e_wallet_balance = 5000
         play_game(initial_account_balance, initial_e_wallet_balance)
         Now, you are ready to play the game.
         Account Balance: Rs. 200:
         E-Wallet Balance: Rs. 5000:
```