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Gaming Club

# Planning:

Project topic: Gaming club. Project that allows to user play games (track delivery and guess game).

# Task:

Track delivery game allows user to order variety of fast and delicious food and check the status of delivery whether delivery shipped or not. In guess game, there is secret number that user should find

# Problem:

# Playing these on paper, or on head is time consuming and gives the users stress

# Goal:

# We would like to optimize the process with the help of computers and programs.

# User requirements:

# A program shows two games to choose

# Track delivery

# 1 User can choose what to be shipped for him.

# 2 User can check status of the thing he shipped. For example, computer may say shipped or on the way it, depending on how many times you press status command

# 3 And he can also cancel his order. Game continues until user quitted.

# Guess game

# User should find the secret number in this game. There is a three chance for him to find and no one knows the secret number even programmer because computer generates it randomly.

Evaluation

User requirements

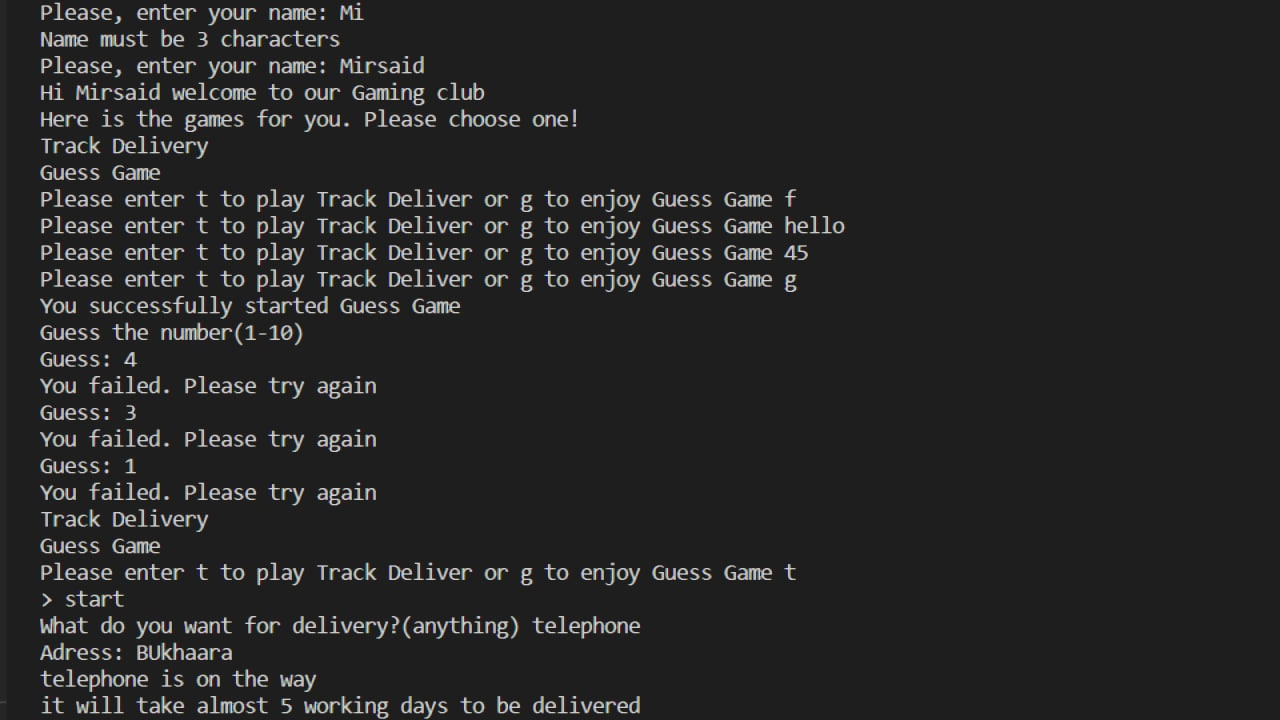
**Requirement 1**: program is working in the loop.

We implemented all of the initial user requirements.

* 1. Intro
     1. User must enter his name
     2. If user’s name is 3 characters or more than 50 characters. Program will never continue it will ask for name until name looks good

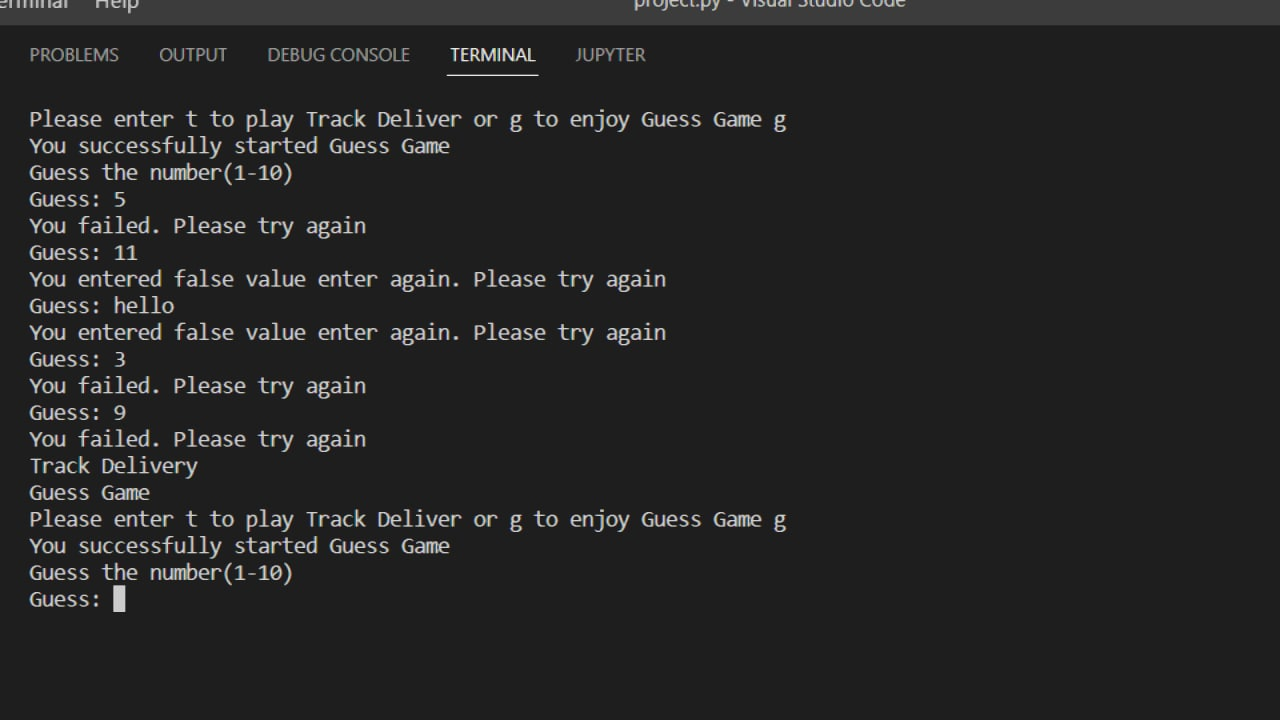
b. Selection

1 Two games to choose user should press “t” to start delivery game g to start guess game no other integers and strings accepted.



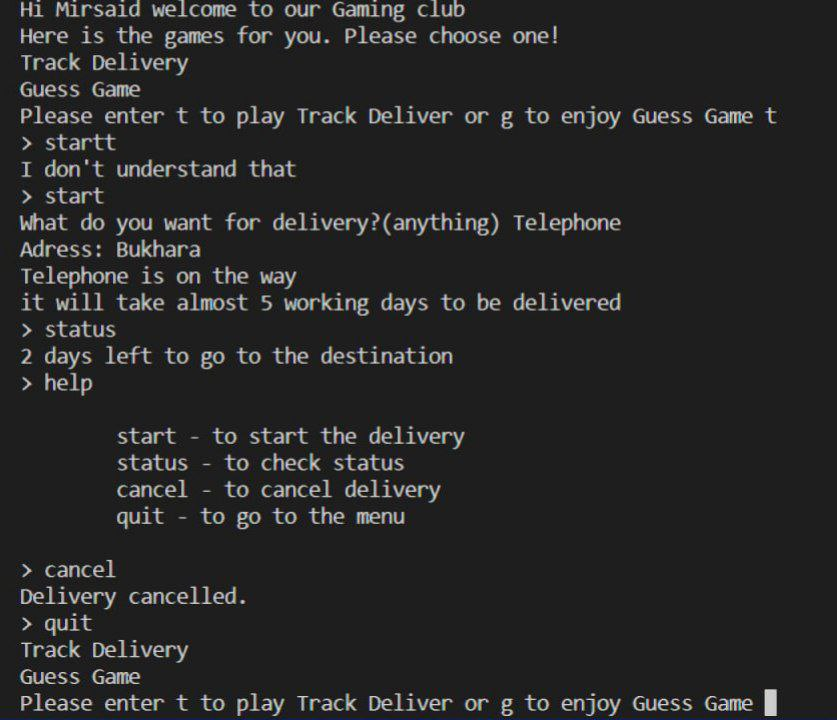
**Requirement 2:**

* **Program should randomize secret number for user to find:**
* **1 You cannot enter string or integer (other than numbers from 0 to 10)**
* **2 User has three chances to find the secret if user cannot find the number program automatically returns to the main menu**



**Requirement 3:**

* **1 User can choose what to be shipped for him.**
* **2 User can check status of the thing he shipped. For example, computer may say shipped or on the way it, depending on how many times you press status command**
* **3 And he can also cancel his order. Game continues until user quitted**



Functionality test and code explanation

* Program works normally without crash while performing all of the user requirements.
  + Takes care of wrong input
  + Does not crash even when Ctr+C is pressed
* Link for the demo video: <https://youtu.be/oXQDaq2yGow>
  + Functionality test
  + Code explanation

Elements

|  |  |
| --- | --- |
| element | Use case |
| List for guessing number options | numbers = (0,1,2,3,4,5,6,7,8,9,10) |
| **not in** operator of list | while response not in {"t", "g"}: |
| Augmented operators | chance = 0      chance\_limit = 3      while chance < chance\_limit:          guess = input("Guess: ")          if guess.isdecimal() and (int(guess)>=0 and int(guess)<=10):            guess = int()            chance += 1 |
| Comparison operators | if guess.isdecimal() and (int(guess)>=0 and int(guess)<=10): |
| Function definitions and their call | def ask\_user():      print("Track Delivery \nGuess Game ")      response = ''      while response not in {"t", "g"}:          response = input("Please enter t to play Track Deliver or g to enjoy Guess Game ").lower()          if response == "t":              track\_delivery()          elif response == "g":              guess\_game()      return response == "t"  ask\_user() |
| Return statement | while response not in {"t", "g"}:          response = input("Please enter t to play Track Deliver or g to enjoy Guess Game ").lower()          if response == "t":              track\_delivery()          elif response == "g":              guess\_game()      return response == "t" |
| Random module | Import random  def new\_func():      numbers = (0,1,2,3,4,5,6,7,8,9,10)      secret = random.choice(numbers)      return secret  secret = new\_func() |
| Control statements | if command == "start" :          delivery = input("What do you want for delivery?(anything) " )          input("Adress: ")          print(delivery + " is on the way")          print("it will take almost 5 working days to be delivered")        elif command == "cancel":          print("Delivery cancelled.")        elif command == "help":          print("""          start - to start the delivery          status - to check status          cancel - to cancel delivery          quit - to go to the menu          """)        elif command == "status":          print( str(secret) + " days left to go to the destination")        elif command == "quit":          ask\_user()        else:          print("I don't understand that") |
| While loop | while chance < chance\_limit:          guess = input("Guess: ")          if guess.isdecimal() and (int(guess)>=0 and int(guess)<=10):            guess = int()            chance += 1            if guess == secret:              print ("Game over. You won")              break            else:              print ("You failed. Please try again")          else:            print("You entered false value enter again. Please try again") |
| Break option from loop | if guess == secret:              print ("Game over. You won")              break |