In [ ]:

```
import random as rand                                   #to choose a random word from the list
import math
```

In [ ]:

```
#List of cities in India

Names = ['Ludhiana',
'Srinagar',
'Rajkot',
'Raipur',
'Jaipur',
'Jodhpur',
'Dehradun',
'Ranchi',
'Ghaziabad',
'Tiruchirappalli',
'Chandigarh',
'Bhopal',
'Jamshedpur',
'Lucknow',
'Vadodara',
'Nashik',
'Kanpur',
'Nagpur',
'Pondicherry',
'Bengaluru',
'Aurangabad']
```

In [ ]:

```
print("Welcome to the game Hangman. Be careful!")


word = rand.choice(Names)                                       #Choosing a random name from the list


#print(word)
word_length = len(word)
tries = math.floor(0.5 * word_length)                           #50% of the wordlength is the tries


print("You have ", tries, " tries.")                            #giving user the required information
print("The word length is: ", word_length)


print("Begin!")                                                 #starting the game
game = 0                                                        #setting the variables
over = 0
over_list = []
correct_guess = []
word_upper = word.upper()
game_tries = tries

for i in range(word_length):
    print("_", end = ' ')
print("\n")


while game_tries > 0:                                           #iterations
    print("Enter letter -> ", end = ' ')
    guess = input()                                             #taking input

    if guess.upper() in word_upper:                             #upper used to remove case sensitivity
        correct_guess.append(guess)                             #appending all correct inputs into a list
        correct_guess_upper = [i.upper() for i in correct_guess]

        for index in range(word_length):                        #for printing the letters and blanks
            if word_upper[index] in correct_guess_upper:
                over += 1                                       #over is used for terminating the game when user wins
                print(word[index], end = ' ')
            else:
                print("_", end = ' ')
        print("\n")

        over_list.append(over)                                  #list appends the value of over after each iteration

        if len(over_list) > 1:                                  #after winning, the last and second last values of over_
list
                                                                #will have a difference of the word length
            if (over_list[len(over_list) - 1] - over_list[len(over_list) - 2]) == word_length:
                print("You win!")
                print("You correctly identified the word: ", word)
                game_tries = 0

    else:                                                       #if the user gives a wrong input

        game_tries = game_tries - 1
        print("Oops! You have ", game_tries, " tries left.", "\n")
        if game_tries == 0:                                     #when the number of tries becomes zero
            print("You lose!")
            print("The word was: ", word)
```