

# Guess the number!

## Description:

In this program we will guess a number and show the output after how many guess we successfully found the number.

## Solution Approach:

First need to import a random module to generate a system define random number in range 1-10.

Initialize a counter that how many time attempts to guess the right number.

Make a while loop and accept user input of type integer. If the user gives any character or negative number or out of range number then ask him to give number only of range 1 – 10.

Check the condition whether the guess number is large then print a message 'Too high'. If the guess is smaller then print a message 'Too low'.

For every attempts increment the counter when the guess is equal to actual number then print that user got the number after a particular attempts.

## Source code (Python: 3.6):

```
import random # import the random module to generate the random number
print('Welcome to my Guess the number program!')
num=random.randint(1,10) # geneating the random number
count=0 # counter initialization

while True: #contineu the while loop untill it's become true.
    try:
        guss=int(input('Please guess a number between 1 and 10:')) # to check integer
        if (guss>0 and guss<11): # to check user input range of the number
            if(guss>num): # guss number is greater than actual
                print('Too high')
                count+=1
            elif(guss<num): # guss number is smaller than actual
                print('Too low')
                count+=1
            else: # guss number is equal with actual
                print('You guessed it! It took you',count, 'attempts')
                break # when number is found break the statement.
        else: pass
    except: print('Numbers only!')
```

## Screen short code and output:

Task 2  
This is a guess the number game

```
In [1]:#!/usr/bin/env python3
# This is a guess the number game.
import random # import the random module to generate the random number
print('Welcome to my Guess the number program!')
num=random.randint(1,10) # geneating the random number
count=0 # counter initialization

while True: #contineu the while loop untill it's become true.
    try:
        guss=int(input('Please guess a number between 1 and 10:')) # to check integer
        if (guss>0 and guss<11): # to check user input range of the number
            if(guss>num): # guss number is greater than actual
                print('Too high')
                count+=1
            elif(guss<num): # guss number is smaller than actual
                print('Too low')
                count+=1
            else: # guss number is equal with actual
                print('You guessed it! It took you',count, 'attempts')
                break # when number is found break the statement.
        else: pass
    except: print('Numbers only!')
```

```
Welcome to my Guess the number program!
Please guess a number between 1 and 10:a
Numbers only!
Please guess a number between 1 and 10:-3
Please guess a number between 1 and 10:5
Too high
Please guess a number between 1 and 10:3
Too high
Please guess a number between 1 and 10:1
You guessed it! It took you 2 attempts
```