

In [5]:

```
def Check_win(input_number,hidden_number):
    """
    check whether the guess is correct or not

    parameters :
        input_number : int
        hidden_number : int
    return boolean

    """
    if input_number==hidden_number:
        return True
    return False

def Check_diff(input_number,hidden_number):
    """
    check whether input is greater or less than hidden number

    parameters :
        input_number : int
        hidden_number : int

    return string

    """
    if input_number>hidden_number:
        return "-----Your guess is greater than hidden number-----"
    return "-----Your guess is smaller than hidden number-----"

import random
hidden_number = random.randint(0,100) # -----generating hidden number -----

if __name__=="__main__":
    for i in range(5):
        print("Total attempts --> 5 \nLost ---> {} \nnumber of attempts left --> {}".format((i), (5-i)))
        input_number=int(input("Guess the hidden number\n"))

        win_or_loss = Check_win(input_number,hidden_number)
        if win_or_loss:
            print("-----You won the game-----")
            break
        else:
            diff_win = Check_diff(input_number,hidden_number)
            print("{}\n-----Better luck next time-----\n".format(diff_win))
        print("The hidden number is {}".format(hidden_number))
```

```
Total attempts --> 5
Lost ---> 0
number of attempts left --> 5
Guess the hidden number
-1
-----Your guess is smaller than hidden number-----
-----Better luck next time-----
```

```
Total attempts --> 5
Lost ---> 1
number of attempts left --> 4
Guess the hidden number
12
-----Your guess is smaller than hidden number-----
-----Better luck next time-----
```

```
Total attempts --> 5
Lost ---> 2
number of attempts left --> 3
Guess the hidden number
45
-----Your guess is greater than hidden number-----
```

```
-----Your guess is greater than hidden number-----  
-----Better luck next time-----
```

Total attempts --> 5

Lost ---> 3

number of attempts left --> 2

Guess the hidden number

44

```
-----Your guess is greater than hidden number-----
```

```
-----Better luck next time-----
```

Total attempts --> 5

Lost ---> 4

number of attempts left --> 1

Guess the hidden number

42

```
-----Your guess is greater than hidden number-----
```

```
-----Better luck next time-----
```

The hidden number is 22