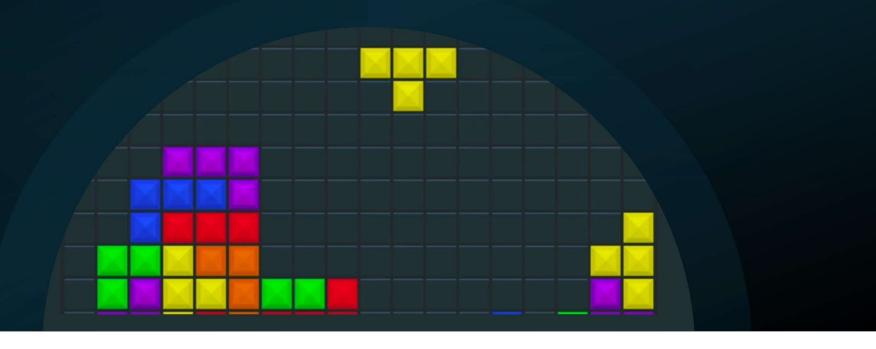


#### Useful Resource

askpython.com

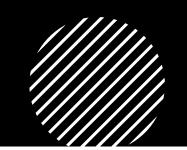
# How will you feel, if every time T shape with yellow color fell

You need some unpredictability in the games





#### Random Module

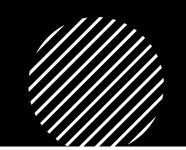


Allows to generate random numbers

import random



#### Random Integer



num=random.randint(10,20)

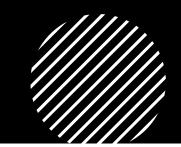
This will generate a random number between 10 and 20, including 10 and 20

#### Creating your own module

• Your can also create your own modules and use them



#### Random float



Random\_float=random.random()

Always generates a floating number between 0 and 1

But how to expand the range, let's say I want a random float between 0 and 5

## Solution

• Random\_float=Random\_float\*5

#### Coin Toss

- Create a virtual coin toss program using Random Numbers
- 0 means head, 1 means tail

### random.choice(list)

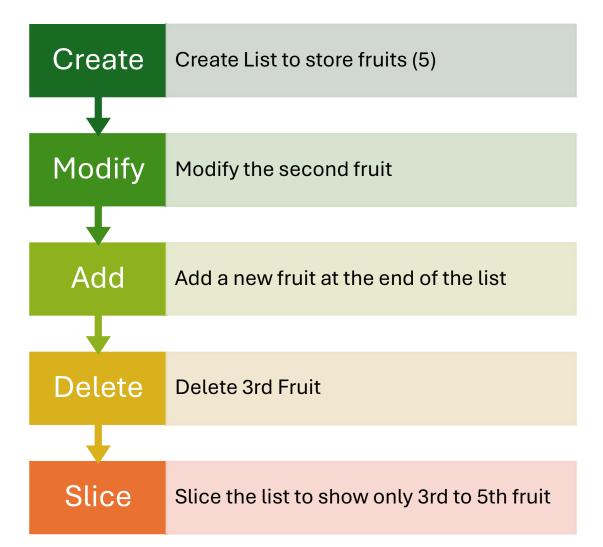
• Selects a random element from the sequence

#### List

- Data Structure
- Collection of Multiple Items (Heterogenous)
- Exp:
  - provinces\_pakistan=["Sindh", "Punjab", "KPK", "Balouchistan"]



Let's Recall the list operations





# Operations on the list



Adding items in the list



Modifying the list items



Accessing the items of the list



Removing the items from the list



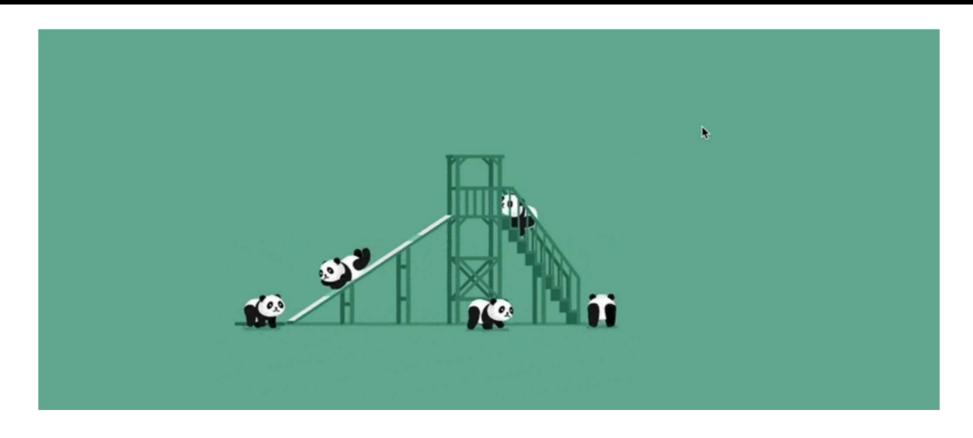
Using different list functions



Slicing the list



#### Loops-Introduction to Repetitions



#### For Loop

# For Loop

```
for item in list_of_items:
    #Do something to each item
```

#### Example

```
fruits = ["Apple", "Peach", "Pear"]
for fruit in fruits:
   print(fruit)
   print(fruit + " Pie")
print(fruits)
```

range() function

Returns a range object

range(start,end,increment)