Dictionary in Python By Sudhanshi capital={"India":"New Delhi", "Afghanistan":"Kabul", "Argentina":"Buenos Aires", "Ireland": "Dublin", "Jordan": "Amman", "USA": "Washington DC"} In [3]: type(capital) Out[3]: dict capital.values() dict_values(['New Delhi', 'Kabul', 'Buenos Aires', 'Dublin', 'Amman', 'Washington DC']) capital.keys() Out[5]: dict_keys(['India', 'Afghanistan', 'Argentina', 'Ireland', 'Jordan', 'USA']) Note 1: Keys are case sensitive capital["ireland"] Traceback (most recent call last) <ipython-input-6-6e61b682d527> in <module> ----> 1 capital["ireland"] KeyError: 'ireland' capital["Ireland"] 'Dublin' Out[7]: Note 2:Dictionary doesn't allow the duplicate keys In [8]: dict_1={101:["Aman", 26, "Wipro"], 102:["Julie", 29, "Infosys"], 103:["Naina", 32, "Deloite"], 102:["Prashashti", 26, "Accenture"]} print(dict_1) {101: ['Aman', 26, 'Wipro'], 102: ['Prashashti', 26, 'Accenture'], 103: ['Naina', 32, 'Deloite']} Note3: Accessing Values in Dictionary In [10]: Employee_data = { 101:['Shiva', 24, 'Content Strategist'], 102:['Udit',25,'Content Strategist'], 103:['Sonam', 28,'Data Analyst'], 104:['Ansari',29,'Product Lead'],105:['Huzefa',3 print(Employee_data[103][2]) Data Analyst In [12]: Employee_data[113] Traceback (most recent call last) <ipython-input-12-050bda43fabd> in <module> ----> **1** Employee_data[**113**] **KeyError**: 113 if 104 in Employee_data.keys(): print("Yes") else: print("NA") Yes In [14]: 104 in Employee_data Out[14]: True Note 4: We should use Round Brackets/Parenthesis while accessing value from Dictonary Data={"Name":"Naveen", "Age":32, "Skills":["Python", "Java", "SQL"]} In [16]: Data.get["Skills"] Traceback (most recent call last) <ipython-input-16-4bda306ebf8c> in <module> ----> 1 Data.get["Skills"] TypeError: 'builtin_function_or_method' object is not subscriptable In [17]: Data.get("Skills") Out[17]: ['Python', 'Java', 'SQL'] Built-in-Methods of Dictionary Sorted()method In [18]: data = { 101:['Shiva', 24, 'Content Strategist'] ,102:['Udit',25,'Content Strategist'], 103:['Sonam', 28,'Sr Manager'], 104:['Ansari',29,'Product Lead']} sorted(data.keys()) [101, 102, 103, 104] sorted(data.values()) In [21]: sorted(data.values() , reverse= True) Out[21]: [['Udit', 25, 'Content Strategist'], 'Sonam', 28, 'Sr Manager'], 'Shiva', 24, 'Content Strategist'], ['Ansari', 29, 'Product Lead']] Update() method In [22]: Basket={"Fruit":["Apple", "Mango", "Grapes"], "Vegetables":["Tomato", "Potato", "Cabbage"]} In [23]: Basket["Dairy_Products"]="Milk", "Cheese" In [24]: print(Basket) {'Fruit': ['Apple', 'Mango', 'Grapes'], 'Vegetables': ['Tomato', 'Potato', 'Cabbage'], 'Dairy_Products': ('Milk', 'Cheese')} Changes value in Dictionary x={"Name":"Harry", "Age":22, "Business":"Retail"} In [26]: x["Business"]="Trade" In [27]: print(x) {'Name': 'Harry', 'Age': 22, 'Business': 'Trade'} Pop() method

In [28]:

Out[29]: 22

In [31]:

In [32]:

In [34]:

In [35]:

x.pop("Age")

print(x)

x.popitem()

print(x)

Delete method

del x

NameError

----> 1 X

Clear method

capital.clear()

capital

Out[38]: {}

('Business', 'Retail')

{'Name': 'Harry'}

x={"Name":"Harry", "Age":22, "Business":"Retail"}

x={"Name":"Harry", "Age":22, "Business":"Retail"}

<ipython-input-35-6fcf9dfbd479> in <module>

NameError: name 'x' is not defined

Traceback (most recent call last)

capital={"India":"New Delhi", "Afghanistan":"Kabul", "Argentina":"Buenos Aires", "Ireland":"Dublin"}

{'Name': 'Harry', 'Business': 'Retail'}