```
# task - 6

dic1 = {"Australia":"Canberra",
        "Canada":"Ottawa",
        "China":"Beijing",
        "England":"London",
        "Germany":"Berlin",
        "India":"Delhi"}
dic2 = {"Japan":"Tokyo",
        "Russia":"Moscow",
        "United States":"Washington D.C."}
print("dic1 : ",dic1)
print("\ndic2 : ",dic2)


# 1.merge two dictionaries

dic3={**dic1,**dic2}
print("\nmerge dictionaries:\n",dic3)

"""   also use this method
 dic3 = dic1|dic2
print(dic3)    """


# 2.remove a key from a dictionary
del dic3['Russia']
print("\nRemove a key from a dictory :\n",dic3)


# 3.map two lists into dictionary
Key = ["Fruit","Colour","Shape"]
Value = ["Apple","Red","oblong"]
my_dictionary = dict(zip(Key,Value))
print("\n Key :",Key)
print("value :",Value)
print("Map two list in dictionary :")
print( "my_dictionary :",my_dictionary)


# Sets
India = {"Rohit","Raina","Dhoni","Kohli","Jadeja","Bumrah"}
CSK = {"Dhoni","Plessis","Jadeja","Bravo","Raina"}
print("\nIndia : ",India)
print("CSK : ",CSK)
```

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# 4.find the length of a set
print("\nLength of a set India: ",len(India))
print("Length of a set CSk: ",len(CSK))


# 5.remove the intersection of a 2nd set from the 1st set
print("\nRemove the intersection of a 2nd set from the 1st set using
 Difference_update():")
India.difference_update(CSK)
print("\nIndia : ",India)
print("CSK : ",CSK)

"""  also use this mathod
print("\nRemove the intersection of a 2nd set from the 1st set using
 -= operator:")
India-=CSK
print("\nIndia : ",India)
print("CSK : ",CSK)        """
```

Output :

```
dic1 :  {'Australia': 'Canberra', 'Canada': 'Ottawa', 'China': 'Beijing', 'England': 'London', 'Germany': 'Berlin', 'India': 'Delhi'}

dic2 :  {'Japan': 'Tokyo', 'Russia': 'Moscow', 'United States': 'Washington D.C.'}

merge dictionaries:
 {'Australia': 'Canberra', 'Canada': 'Ottawa', 'China': 'Beijing', 'England': 'London', 'Germany': 'Berlin', 'India': 'Delhi', 'Japan': 'Tokyo', 'Russia': 'Mosc
ow', 'United States': 'Washington D.C.'}

Remove a key from a dictory :
 {'Australia': 'Canberra', 'Canada': 'Ottawa', 'China': 'Beijing', 'England': 'London', 'Germany': 'Berlin', 'India': 'Delhi', 'Japan': 'Tokyo', 'United States'
: 'Washington D.C.'}

 Key : ['Fruit', 'Colour', 'Shape']
value : ['Apple', 'Red', 'oblong']
Map two list in dictionary :
my_dictionary : {'Fruit': 'Apple', 'Colour': 'Red', 'Shape': 'oblong'}

India :  {'Jadeja', 'Rohit', 'Kohli', 'Dhoni', 'Raina', 'Bumrah'}
CSK :  {'Plessis', 'Bravo', 'Jadeja', 'Dhoni', 'Raina'}

Length of a set India:  6
Length of a set CSk:  5

Remove the intersection of a 2nd set from the 1st set using Difference_update():

India :  {'Rohit', 'Kohli', 'Bumrah'}
CSK :  {'Plessis', 'Bravo', 'Jadeja', 'Dhoni', 'Raina'}
```