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1. Dict + 3 , Dict * 3 , Dict + {3: "3"}, Dict.update("3": 3)

2. 'Kolkata'

3. No because key has ~~tuple~~ list values and key cannot be of mutable data type.

4. 5 : num
'num num num
a: String
String String String
(1,2): tuple
tuple tuple tuple

5) my_points = {'a': (4,3), 'b': (1,2), 'c': (5,1)}
masi = 0
for i in my_points.values():
    if i[0] > masi:
        masi = i[0]
print("Maximum value at index (my_points, 0) = ", masi)

masi = 0
for i in my_points.values():
    if i[1] > masi:
        masi = i[1]
print("Maximum value at index (my_points, 1) = ", masi)

6) ~~points location~~
d = eval(input("Enter Teacher: Subject pair "))
sub = input("Enter the subject: ")
teacher = []
for i in d.values():
    ~~tea~~if ~~sub~~ i == sub:
        teacher ~~###~~.append(i)

print ("Teachers handling ", sub, ":", l)

7. countries = eval (input ("Enter countries : "))
capitals = eval (input ("Enter capitals: "))
diction = dict (zip (countries, capitals))
while True:
    search = input ("Enter the country: ")
    print (diction.get (search, 'not available'))
    if search == 'end':
        print ("Quiting... ")
        break

8. Statement 1 does not give error.

{1:111, 2:0, 3:333, 4:4444}

Statement 3 does not work since dictionary cannot be contatinated by '+' operator. (Type Error)

9. {'corn': 25, 'tomato': 49}

10. False
July
hot
summer: hot
winter: cold
December: cold
June: hot

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```
print("********MENU********")
1. ADD STUDENT
2. MOD STUDENT
3. DEL STUDENT
4. DISPLAY
5. EXIT
")
student = {}
while True:
    choice = int(input("Enter choice: "))
    if choice == 1:
        admin = int(input("Enter admission number: "))
        details = eval(input("Enter details: "))
        students[admin] = details
    if choice == 2:
        admin = int(input("Enter admission number: "))
        print("Details: ", students.get(admin, "invalid"))
        if admin in students:
            newmarks = eval(input("Enter new marks: "))
            students[admin][3] = newmarks
    if choice == 3:
        admin = int(input("Enter admin no.: "))
        if admin in students:
            del(student[admin])
            print("Deleting...")
            print("Successfully deleted")
        else:
            print("invalid admission number: ")
    if choice == 4:
        grade = int(input("Enter grade: "))
        section = input("Enter section: "))
        for i in students:
            if student[i][2] == section and students[i][3] == 11:
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```
            total = sum(students[i][3])
            avg = total/5
            print(student[i], '\t', 'Total =',
            total, 'Average =', avg)
        else:
            print("No student in", grade, ":",
                  section)
    if choice==5:
        print("Quiting program...")
        break
```