***Task 1:***

Write a function dict(d1) that takes a dictionary and prints the resultant dictionary by switching the keys and values of the original dictionary so that it looks like the following output:

**Driver code/ Function call:**

dict({“Alice” : [10,30,27], “Sam” : [23,12,27], “Ray” : [14,30]})

**Output:**

{(10 : [“Alice], 30 : [“Alice”, “Ray”], 27 : [“Alice”, “Sam”], 23 : [“Sam”], 12 : [“Sam”], 14 : [“Ray”]}

***Task 2:***

Write a function find\_odd\_even (list1) that takes a list and returns two lists, one containing all the odd and the other containing all the even numbers.

| **Function Call:**  find\_odd\_even ([10, 5, -3, -39, 0, -18]) | **Output:**  Odd: [5, -3, -39]  Even: [10, 0, -18] |
| --- | --- |

Write a function find\_pos\_neg (list1) that takes a list and returns two lists, one containing all the positive and the other containing all the negative numbers.

| **Function Call:**  find\_pos\_neg ([10, 5, -3, -39, 0, 18]) | **Output:**  Positive: [10, 5, 0, 18]  Negative: [-3, -39] |
| --- | --- |

***Task 3:***

| sun = 2 |
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| moon = [8, 5] |
| star = 0 |
| while star <= 1: |
| planet = sun |
| while planet < moon[0]: |
| if planet % 2 == 0: |
| print(planet \* 3 + moon[1] + 13) |
| elif planet // 3 <= 1: |
| print(planet + sun - 7) |
| else: |
| print(planet + 13 + sun \* 5) |
| planet += 2 |
| star += 1 |
| sun += 1 |