Task 1

Write a Python function sum_list that returns the sum all the numbers in a list.

Input: [8, 2, 3, 0, 7]

Output: 20

```
# defining function
def sum_list(list_input):
    sum = 0
    for i in list_input:
        sum += i
    return sum

# calling function
array = [8, 2, 3, 0, 7]
sum_list(array)
```

```
20
```

Task 2

Write a Python function test_prime that takes a number as a parameter and checks whether the number is prime or not.

Input 1: 7

Output 1: True

Input 2: 10

Output 2: False

```
# defining function
def test_prime(number):
    count = 0
    for i in range(2, number + 1):
        if number % i == 0:
            count += 1
    if count > 1:
        print(False)
    else:
        print(True)

# calling function
```

```
test_prime(7)
test_prime(10)
test_prime(859)
```

```
True
False
True
```

Task 3

Write a Python function is_even_num that accepts a list and returns another list with numbers from a given list.

Input: [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

Output: [2, 4, 6, 8, 10]

```
# defining function
def is_even_num(list):
    output_list = []
    for i in list:
        if i % 2 == 0:
            output_list.append(i)
    return output_list

input_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

# calling function
is_even_num(input_list)
```

```
[2, 4, 6, 8, 10]
```

Task 4

Write a Python program that deletes a list of keys from a dictionary.

Given : sample_dict = "name": "Kelly", "age": 25, "salary": 8000, "city": "New york"

Keys to remove keys = ["name", "salary"]

Expected output: 'age': 25, 'city': 'New york'

```
# function defintion
def remove_keys(dictionary_input, list_input):
    for key in list_input:
      dictionary_input.pop(key)
    return dictionary_input
```

```
# sample dictionary
sample_dict = {
   "name": "Kelly",
   "age": 25,
   "salary": 8000,
   "city": "New york"
   }

# Keys to remove
keys = ["name", "salary"]

# calling function
remove_keys(sample_dict, keys)
```

```
{'age': 25, 'city': 'New york'}
```