ASSIGNMENT 4

Task 1: Create two lists and join them

list1 = [1, 2, 3]

list2 = [4, 5, 6]

joined_list = list1 + list2

print(joined_list)

OUTPUT:

[1, 2, 3, 4, 5, 6]

Task 2: Find even numbers using an if statement

numbers = [1, 2, 3, 4, 5, 6]

even_numbers = []

for num in numbers:

   if num % 2 == 0:

     even_numbers.append(num)

print(even_numbers)

OUTPUT:

[2, 4, 6]

Task 3: Create a dictionary with 3 keys and 2 values for each key

my_dict = {

   "key1": ["value1a", "value1b"],

   "key2": ["value2a", "value2b"],

   "key3": ["value3a", "value3b"]

}

print(my_dict)

OUTPUT:

{'key1': ['value1a', 'value1b'], 'key2': ['value2a', 'value2b'], 'key3': ['value3a', 'value3b']}

Task 4: Create a function to find odd numbers using an if statement

def find_odd_numbers(numbers):

   odd_numbers = []

   for num in numbers:

     if num % 2 != 0:

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        odd_numbers.append(num)

    return odd_numbers


numbers = [1, 2, 3, 4, 5, 6]

odd_numbers = find_odd_numbers(numbers)

print(odd_numbers)
```

```
[1, 3, 5]
```

Task 5: Write a function to sum all the numbers in a list

```
def sum_numbers(numbers):

    total = 0

    for num in numbers:

        total += num

    return total


sample_list = [8, 2, 3, 0, 7]

result = sum_numbers(sample_list)

print("Expected Output:", result)
```

```
Expected Output: 20
```