basicpython-task4

October 18, 2023

AI ML Assignment 1 (Basic Python)

Create two list and join those two lis

```python
[ ]: list_a = [1, 2, 3, 4]
     list_b = ['a', 'b', 'c', 'd']

     combined_list = list_a + list_b
     print(combined_list)  # Output: [1, 2, 3, 4, 'a', 'b', 'c', 'd']
```

```
[1, 2, 3, 4, 'a', 'b', 'c', 'd']
```

With If statement find the even number

```python
[ ]: numbers = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
     even_numbers = []

     for num in numbers:
         if num % 2 == 0:  # If the remainder when divided by 2 is zero, then the␣
     ↪number is even.
             even_numbers.append(num)

     print(even_numbers)
```

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

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

```python
[ ]: my_dict = {
         "key1": ["value1a", "value1b"],
         "key2": ["value2a", "value2b"],
         "key3": ["value3a", "value3b"]
     }

     print(my_dict)
```

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

Create a function with If statement whis is used to find the odd numbers

```python
def find_odd_numbers(numbers):
    odd_numbers = []

    for num in numbers:
        if num % 2 != 0:  # If the remainder when divided by 2 is not zero,
    then the number is odd.
            odd_numbers.append(num)

    return odd_numbers

# Example usage:
numbers_list = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]
print(find_odd_numbers(numbers_list))
```

```
[1, 3, 5, 7, 9]
```

Write a Python function to sum all the numbers in a list.

```python
def sum_numbers(numbers):
    total = 0
    for num in numbers:
        total += num
    return total

# Example usage:
numbers_list = [1, 2, 3, 4, 5]
print(sum_numbers(numbers_list))
```

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15
```

Sample List : (8, 2, 3, 0, 7)

Expected Output : 20

```python
def sum_numbers(numbers):
    return sum(numbers)

# Example usage:
sample_list = (8, 2, 3, 0, 7)
print(sum_numbers(sample_list))
```

```
20
```