AI ML ASSIGNMENT-1

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TASK-1:2 million is a million of the million of the
· Create two list and join those two list
> Here are *two ways* to create two rists and join
them in python:
 " * using the + operator *: you can use the + operator
 to Concentenate two lists together, creating a new
 list that contains on the elements from both lists
  Here's an Escample:
  Python is committee in the soll of
   nist 1 = [1, 2, 3]
nist 2 = [4, 5, 6]
   Combined_list = list 1 + list 2
                                                                       is to form of not origo error
  Print (combined - 11st)
   The will output: [1,2,3,4,5,6] 23,110
  2. * using list unpacking *: Another way to combine
  two lists is by unpacking all items from the lists
   you want to combine . By using the * operator . you
   can access all the items in both listsand unpack
  them into a third list. Here's an Example:
              Pithon
                                11st1 = [1, 2, 3]
                                118t 2= [4,5,6]
                Combined - list = [* list1, * list2]
           Print (combined _ list)
```

The will output: [1,2,3,4,5,6].

Task-2:with it statement find the Even numbers. > with certainly ! you can use an * if statement to Check it a number is odd or Even in python. Here's an Example code snippet that demonstrates this: Python num = int (input ("enter a number: ")) if (nom 1, 2) Farant stan out stangers in Print (" foz is an Even number.". format else: Print (" for is an odd number.". format (nom)) in this code, we take an input number from the user using the 'input ()' function and convert it to an integer using the 'inter' function . we then use the modulo operator '?' to check if the number

is divisible by 2. if the remainder is 0, the number is Even; otherwise it is odd.

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Task -3:

create a dictionary with 3 keys and 2 wolves for Each Key.

> certainly! Here's an Example code snippet that creates a dictionary with 3 keys and 2 valves for Each key:

Python

my-dict = &'key 1 : ['ualve 1' : ualve 2.] 'Key 2': ['walve 3', 'walve 4'] 'Keys': ['walves', walve 6] 3 Print (my-dict)

in this code, we create a dictionary called 'mil-dict' with 3 keys ('keyi", 'key2', Vand key3') and 2 halves for each key, The halves are stored as rists, which are enclosed in Square brockets and separated by commas. we then print the dictionary using the print () function.

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marchanic construction of the condition tions out the function then prints the result

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Task-4:-
create a function with if statement which is
used to find the odd number in python.
> Example of a python function that uses an
l'if statement to determine whether a number is
odd or even:
 Python
   def check godd Lovie Even Chum):
       if num's 2 == 0000
  Print (f" Enumy is reven ")
    else:
        Print (F" Enumy is odd")
  theck - odd-or-Even (43) #
   output: 43 is odd
   check-odd-or-Eventis) #
    out put: 18 is even.
in this Example, the function check-odd-or-Even
takes an input number 'nom' and checks if it is
divisible by 2 using the modulo operator 'in'.if
the remainder is o, the number is even: otherwise,
it is odd. The function then prints the result
accordingly.
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Task-s:
write a python function to sum all the numbers in
 Sample list: (8,2,3,0,7)
a nist
 Expected output: 20
    Python
    def som -list (1st):
         return sum (1st)
th Example usage
     sample-11st = [8, 2,3,0,7]
 Print (sum_list (sample_list))
 # output: 20
in this Escample, the function 'sum_list' takes a
list '1st' as input and returns the sum of au the
numbers in the list using the built-in 'sumc'
function. The function then prints the result.
Alternatively, you can use a loop to iterate over the
rist and add up the numbers one by one. Here's
an Escample:
   Python
   def sum - list (1st):
            total = 0
            for num in 1st:
                  total + = num
             return total
```

Example usage sample_list = [8, 2, 3, 0, 7] Print (sum_list (sample_list)) # output : 20

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