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1)

CODE:-

a=int(24)

b=int(29)

print("Multiplication table of 24 is: ")

for i in range(1,11):

print(a, 'x', i, '=', a\*i)

print("Multiplication table of 29 is: ")

for j in range(1,11):

print(b, 'x', j, '=', b\*j)

OUTPUT:-

Multiplication table of 24 is:

24 x 1 = 24

24 x 2 = 48

24 x 3 = 72

24 x 4 = 96

24 x 5 = 120

24 x 6 = 144

24 x 7 = 168

24 x 8 = 192

24 x 9 = 216

24 x 10 = 240

Multiplication table of 29 is:

29 x 1 = 29

29 x 2 = 58

29 x 3 = 87

29 x 4 = 116

29 x 5 = 145

29 x 6 = 174

29 x 7 = 203

29 x 8 = 232

29 x 9 = 261

29 x 10 = 290

8)

CODE:-

l1=["apple","banana","guava"]

l2=[]

for i in l1:

q=i[0]

l2.append(q)

print(l2)

OUTPUT:-

['a', 'b', 'g']

7)

CODE:-

l1=[10,20,30,40]

sum=0

for i in l1:

sum+=i

print("The sum of the list is: ",sum)

OUTPUT:-

The sum of the list is: 100

5)

CODE:-

a = [[1,2,3],

[4 ,5,6],

[7 ,8,9]]

b = [[10,11,12],

[13,14,15],

[16,17,18]]

result = [[0,0,0],

[0,0,0],

[0,0,0]]

for i in range(len(a)):

for j in range(len(a[0])):

result[i][j] = a[i][j] + b[i][j]

print("The sum of two 2d matrix is:-")

for r in result:

print(r)

OUTPUT:-

The sum of two 2d matrix is:-

[11, 13, 15]

[17, 19, 21]

[23, 25, 27]

4)

CODE:-

l1=[10,12,13]

l1.reverse()

print("The reverse list is, ",l1)

OUTPUT:-

The reverse list is, [13, 12, 10]

2)

CODE:-

l1 = []

l1.append('apple')

l1.append('banana')

l1.append('guava')

print("The elements in the queue are:- ")

print(l1)

print("\nElements dequeued from queue:-")

print(l1.pop(0))

print("\nQueue after removing elements:-")

print(l1)

OUTPUT:-

The elements in the queue are:-

['apple', 'banana', 'guava']

Elements dequeued from queue:-

apple

Queue after removing elements:-

['banana', 'guava']

3)

CODE:-

rows = int(input("Enter the Number of Rows: "))

num = 0

for i in range(1, rows + 1):

for j in range(1, i + 1):

print(num, end = ' ')

num = num + 1

print()

OUTPUT:-

Enter the Number of Rows: 5

0

1 2

3 4 5

6 7 8 9

10 11 12 13 14

6)

CODE:-

n = int(input("Enter number upto have to generate the set:"))

lst\_prime = []

lst\_odd = []

for possiblePrime in range(2, n+1):

isPrime = True

for num in range(2, possiblePrime):

if possiblePrime % num == 0:

isPrime = False

if isPrime:

lst\_prime.append(possiblePrime)

for num in range(1,n+1):

if(num%2 == 1):

lst\_odd.append(num)

set\_odd = set(lst\_odd)

set\_prime = set(lst\_prime)

# union

print("Union :", set\_odd | set\_prime)

# intersection

print("Intersection :", set\_odd & set\_prime)

# difference

print("Difference :", set\_odd - set\_prime)

# symmetric difference

print("Symmetric difference :", set\_odd ^ set\_prime)

OUTPUT:-

Enter number upto have to generate the set:5

Union : {1, 2, 3, 5}

Intersection : {3, 5}

Difference : {1}

Symmetric difference : {1, 2}