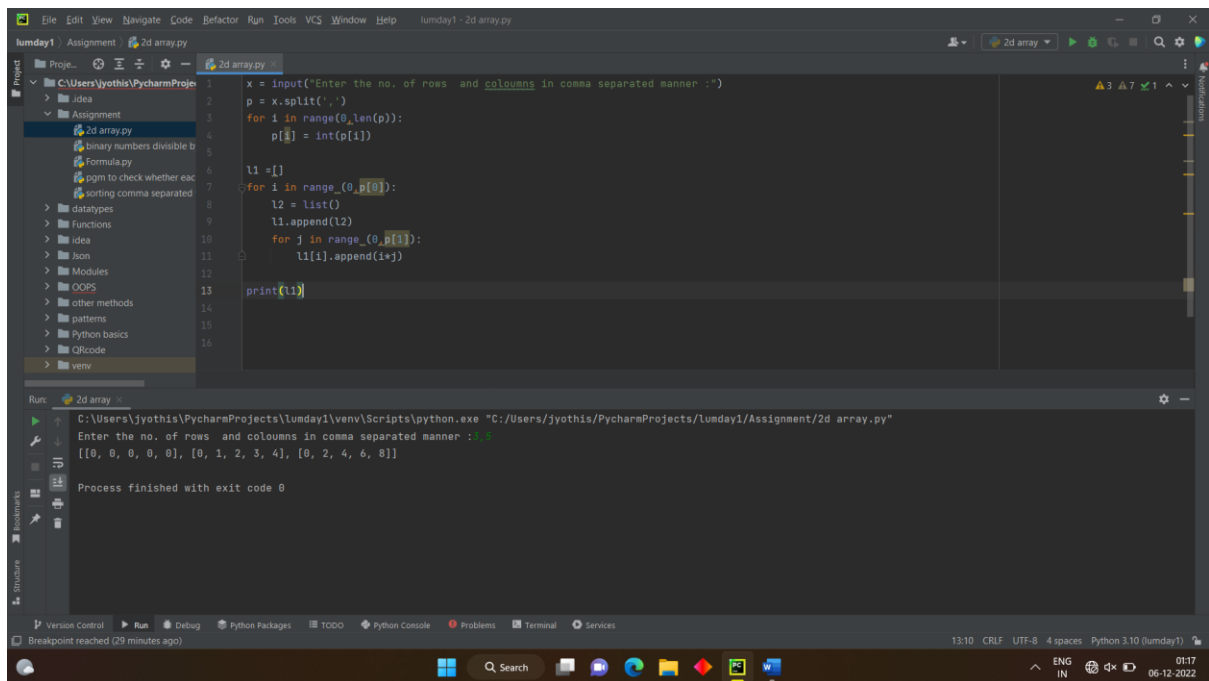


## 1. Two-dimensional array



The screenshot shows an IDE with a project named 'lumday1'. The file '2d array.py' is open. The code prompts the user to enter the number of rows and columns, then creates a 2D array. The output shows a 3x4 array of integers.

```
1 x = input("Enter the no. of rows and columns in comma separated manner :")
2 p = x.split(',')
3 for i in range(0, len(p)):
4     p[i] = int(p[i])
5
6 l1 = []
7 for i in range(0, p[0]):
8     l2 = list()
9     l1.append(l2)
10    for j in range(0, p[1]):
11        l1[i].append(i*j)
12
13 print(l1)
```

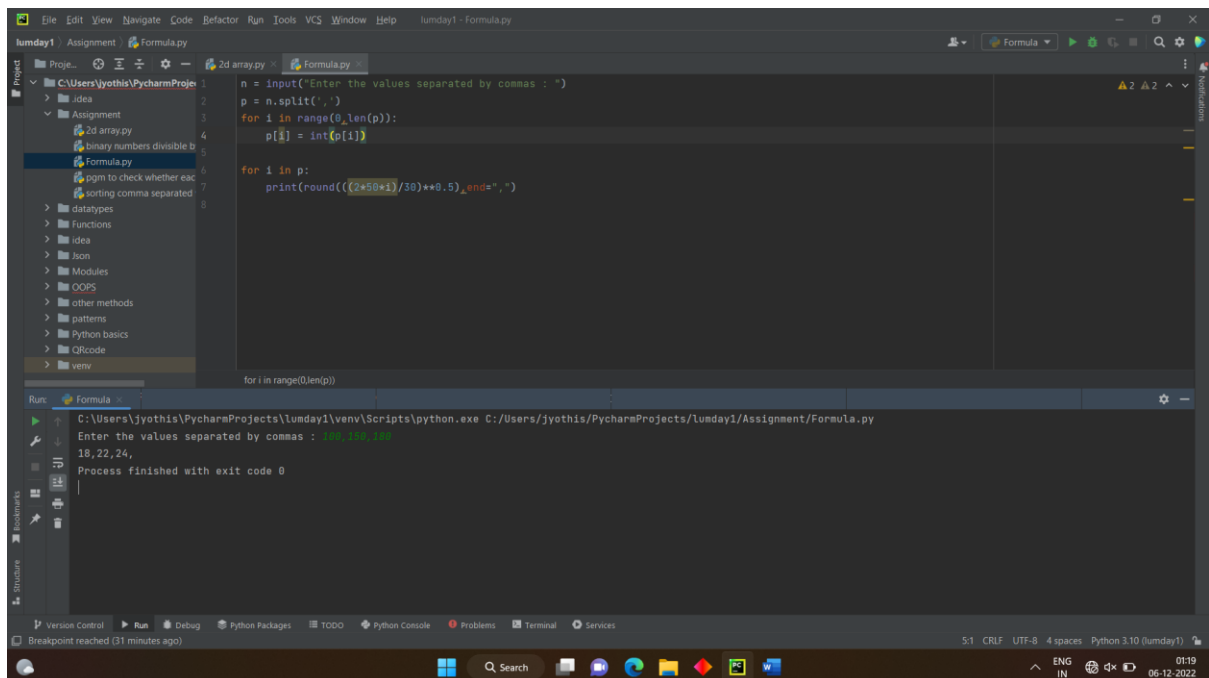
Run: C:\Users\jyothis\PycharmProjects\lumday1\venv\Scripts\python.exe "C:/Users/jyothis/PycharmProjects/lumday1/Assignment/2d array.py"

Enter the no. of rows and columns in comma separated manner : 3 4

[[0, 0, 0, 0], [0, 1, 2, 3, 4], [0, 2, 4, 6, 8]]

Process finished with exit code 0

## 2. Formula question



The screenshot shows an IDE with a project named 'lumday1'. The file 'Formula.py' is open. The code prompts the user to enter values separated by commas, then calculates a formula. The output shows the result of the calculation.

```
1 n = input("Enter the values separated by commas : ")
2 p = n.split(',')
3 for i in range(0, len(p)):
4     p[i] = int(p[i])
5
6 for i in p:
7     print(round(((2*50*i)/30)+0.5), end=" ")
8
9 for i in range(0, len(p)):
10    
```

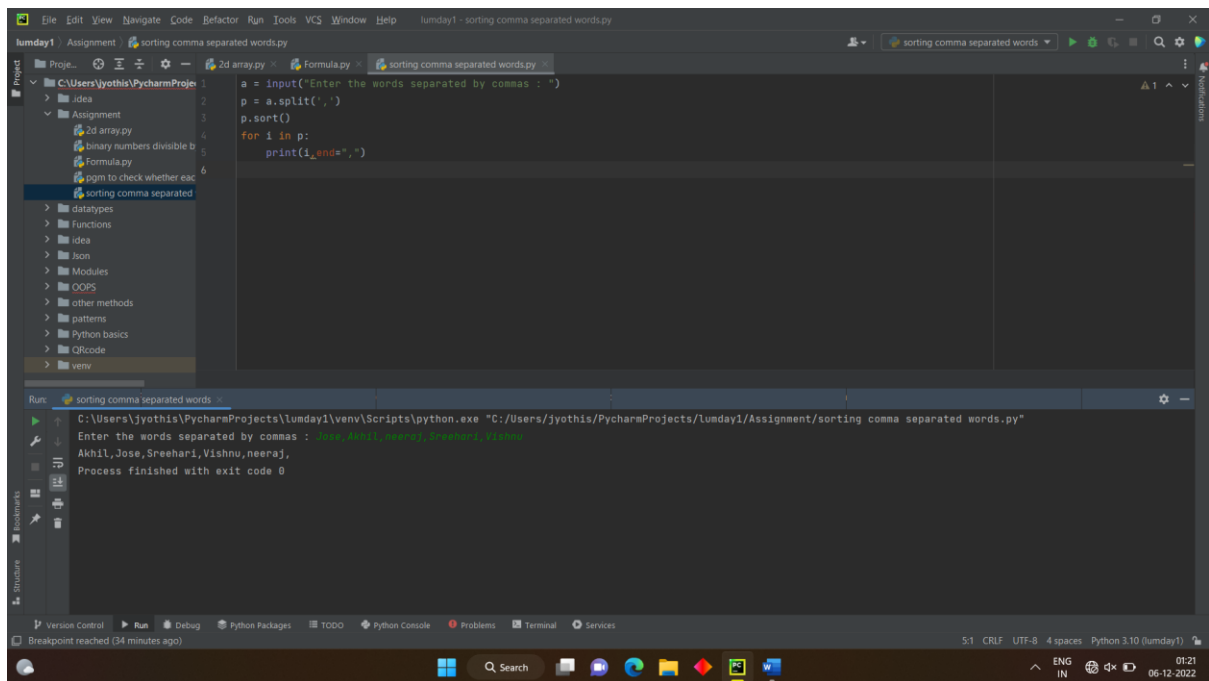
Run: C:\Users\jyothis\PycharmProjects\lumday1\venv\Scripts\python.exe "C:/Users/jyothis/PycharmProjects/lumday1/Assignment/Formula.py"

Enter the values separated by commas : 18,22,24

18,22,24

Process finished with exit code 0

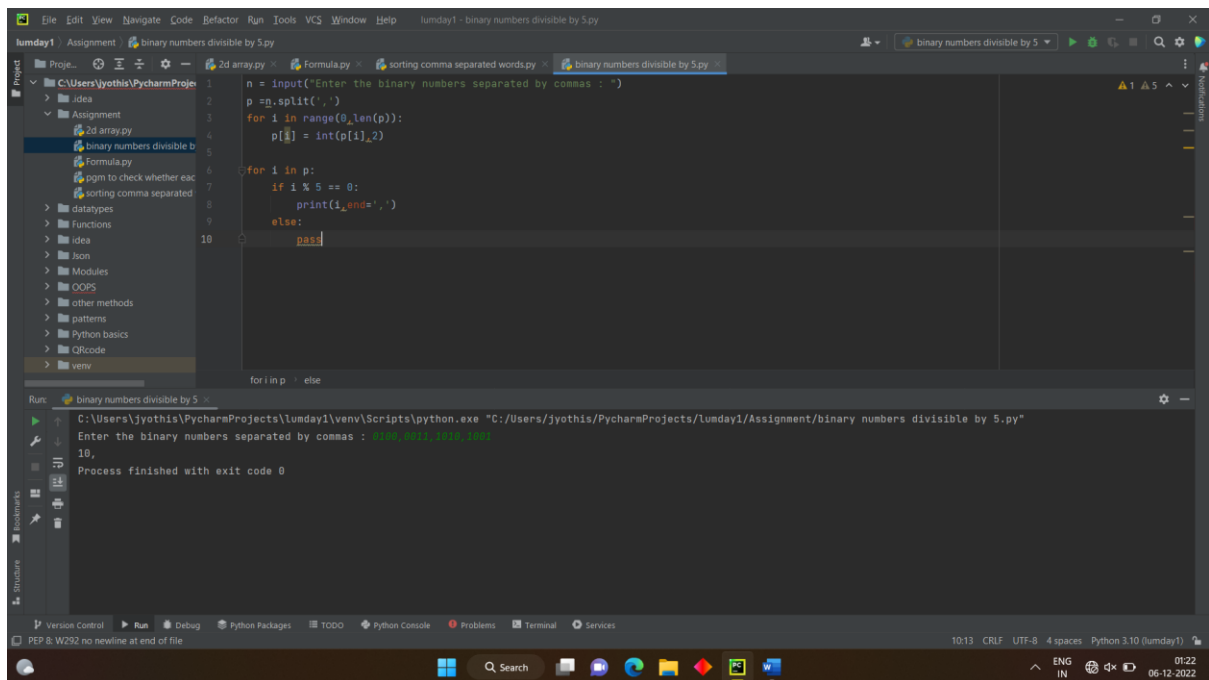
### 3.Sorting comma separated words in alphabetical order



```
1 a = input("Enter the words separated by commas : ")
2 p = a.split(',')
3 p.sort()
4 for i in p:
5     print(i,end=',')
6
```

Run: sorting comma separated words.py  
C:\Users\jyothis\PycharmProjects\lumday1\venv\Scripts\python.exe "C:/Users/jyothis/PycharmProjects/lumday1/Assignment/sorting comma separated words.py"  
Enter the words separated by commas : Jose,Akhil,neeraj,Vishnu  
Akhil,Jose,Sreehari,Vishnu,neeraj,  
Process finished with exit code 0

### 4.Checking binary numbers divisible by 5



```
1 n = input("Enter the binary numbers separated by commas : ")
2 p = n.split(',')
3 for i in range(0,len(p)):
4     p[i] = int(p[i],2)
5
6 for i in p:
7     if i % 5 == 0:
8         print(i,end=',')
9     else:
10        pass
11
12 for i in p:
13    else
```

Run: binary numbers divisible by 5.py  
C:\Users\jyothis\PycharmProjects\lumday1\venv\Scripts\python.exe "C:/Users/jyothis/PycharmProjects/lumday1/Assignment/binary numbers divisible by 5.py"  
Enter the binary numbers separated by commas : 0100,0011,1010,1001  
10,  
Process finished with exit code 0

## 5. Program to check whether each digit is an even number for numbers in a given range

```
1 for i in range(1000,3000):
2     flag = 1
3     l = list(str(i))
4     for j in l:
5         if int(j) % 2 == 0:
6             pass
7         else:
8             flag = 0
9             break
10    if flag == 1:
11        pass
12    else:
13        s = ''
14        for j in l:
15            s = s+j
16        print(s, end=',')
17
18 for i in range(1000,3000) : else : for i in l
```

Run: pgm to check whether each digit is even

C:\Users\jyothis\PycharmProjects\lumday1\venv\Scripts\python.exe "C:/Users/jyothis/PycharmProjects/lumday1/Assignment/pgm to check whether each digit is even.py"

2000,2002,2004,2006,2008,2020,2022,2024,2026,2028,2040,2042,2044,2046,2048,2060,2062,2064,2066,2068,2080,2082,2084,2086,2088,2200,2202,2204,2206,2208,2220,2222,2224,2226,2228,2240,2242,2244,2246,2248,2260,2262,2264,2266,2268,2280,2282,2284,2286,2288

Process finished with exit code 0