

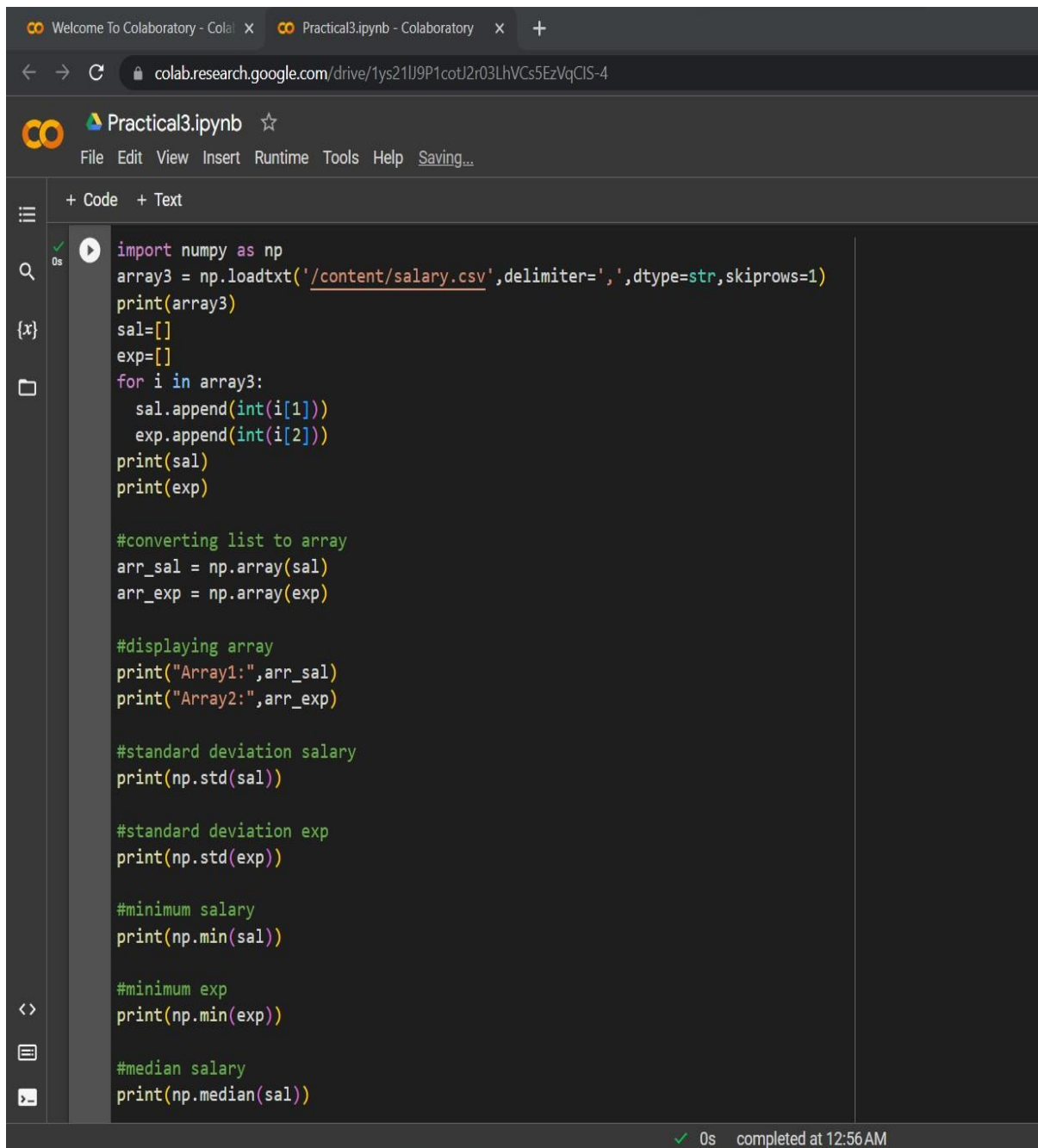
NAME : PIYUSH KISHOR JADHAV

ROLL NO. : 731

PRN : 202201090102

DIV : G-2

CODE :



The screenshot shows a Google Colaboratory notebook titled 'Practical3.ipynb'. The code is written in Python and performs the following operations:

- Imports numpy as np.
- Loads a CSV file located at '/content/salary.csv' using np.loadtxt, with a comma as the delimiter and dtype set to str, skipping the first row.
- Prints the loaded array.
- Creates two empty lists, sal and exp.
- Iterates over each row in the array, appending the salary and experience values to the sal and exp lists, respectively.
- Prints the sal and exp lists.
- Converts the sal and exp lists to numpy arrays (arr_sal and arr_exp).
- Prints the arrays with labels 'Array1:' and 'Array2:'.
- Calculates and prints the standard deviation of the salary array.
- Calculates and prints the standard deviation of the experience array.
- Calculates and prints the minimum salary.
- Calculates and prints the minimum experience.
- Calculates and prints the median salary.

The code is executed successfully, as indicated by the green checkmark and '0s' completion time at the bottom right of the notebook interface.

Welcome To Colaboratory - Colab Practical3.ipynb - Colaboratory +

colab.research.google.com/drive/1ys21U9P1cotJ2r03LhVCs5EzVqCIS-4

Practical3.ipynb ☆

File Edit View Insert Runtime Tools Help Saving...

+ Code + Text

0s

```
#median exp
print(np.median(exp))

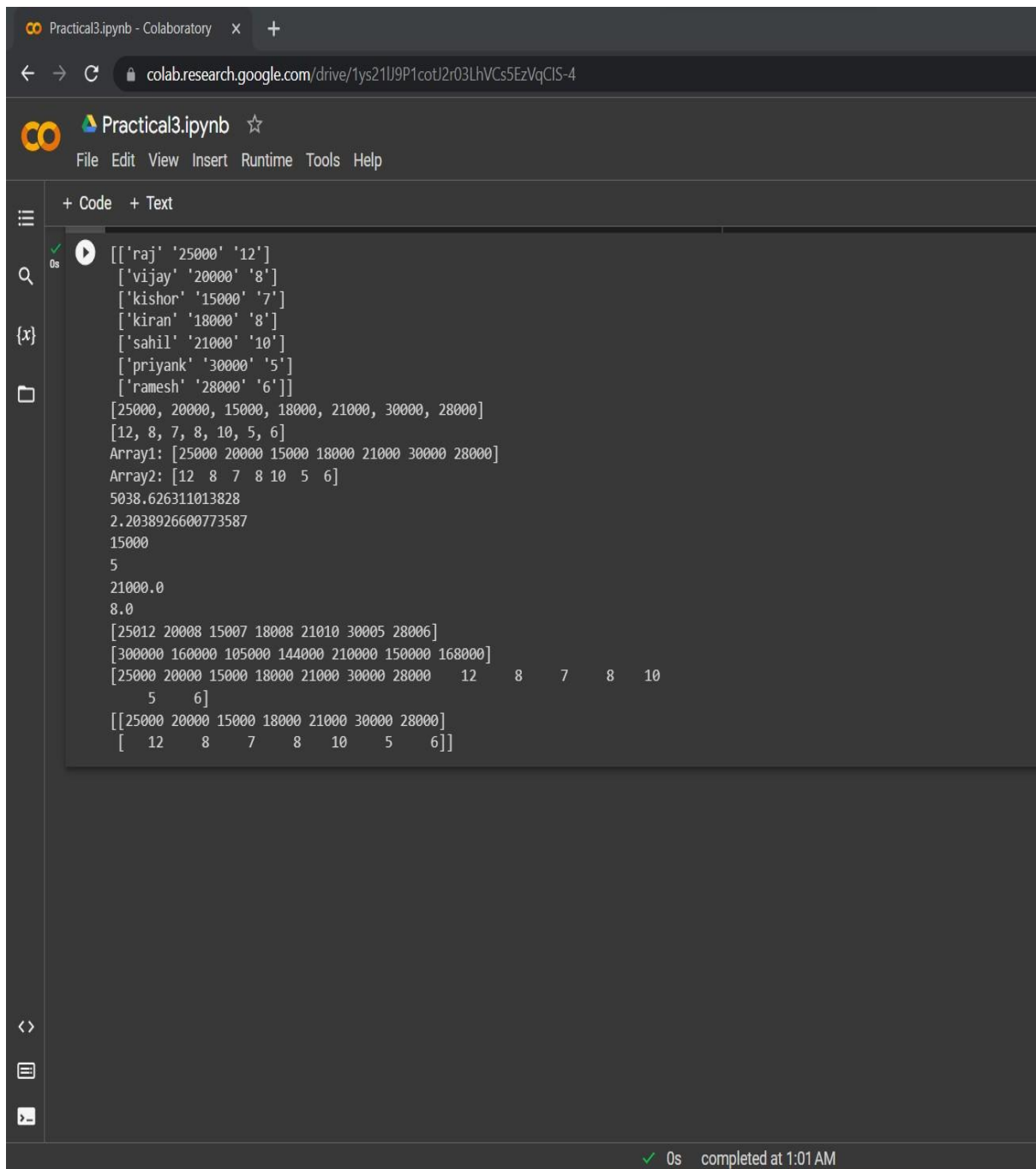
#addition of salary and exp
array1 = np.array(sal)
array2 = np.array(exp)
print(array1+array2)

#multiplication of salary and exp
array1 = np.array(sal)
array2 = np.array(exp)
print(array1*array2)

# horizontal stacking in numpy
array1 = np.array(sal)
array2 = np.array(exp)
output_array = np.hstack((array1,array2))
print(output_array)

#vertical stacking in numpy
array1 = np.array(sal)
array2 = np.array(exp)
output_array = np.vstack((array1,array2))
print(output_array)
```

OUTPUT :



The screenshot shows a Google Colaboratory notebook interface. The browser address bar displays the URL: `colab.research.google.com/drive/1ys21U9P1cotJ2r03LhVCs5EzVqCIS-4`. The notebook is titled "Practical3.ipynb" and has a menu bar with options: File, Edit, View, Insert, Runtime, Tools, and Help. On the left sidebar, there are icons for a list, search, a variable {x}, a folder, and code execution symbols. The main code cell contains the following Python code and its output:

```
[[ 'raj' '25000' '12' ]  
 [ 'vijay' '20000' '8' ]  
 [ 'kishor' '15000' '7' ]  
 [ 'kiran' '18000' '8' ]  
 [ 'sahil' '21000' '10' ]  
 [ 'priyank' '30000' '5' ]  
 [ 'ramesh' '28000' '6' ]]  
  
[25000, 20000, 15000, 18000, 21000, 30000, 28000]  
[12, 8, 7, 8, 10, 5, 6]  
Array1: [25000 20000 15000 18000 21000 30000 28000]  
Array2: [12  8  7  8 10  5  6]  
5038.626311013828  
2.2038926600773587  
15000  
5  
21000.0  
8.0  
[25012 20008 15007 18008 21010 30005 28006]  
[300000 160000 105000 144000 210000 150000 168000]  
[25000 20000 15000 18000 21000 30000 28000    12    8    7    8    10  
     5     6]  
[[25000 20000 15000 18000 21000 30000 28000]  
 [ 12    8    7    8    10    5    6]]
```

The output status at the bottom right indicates: ✓ 0s completed at 1:01 AM.

