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Batch : B1

ROLL n. : 214

Assignment 03:

```
import numpy as np
 a = np.loadtxt("/content/EMP DETAILS.csv",skiprows =1,delimiter=',')
print(a)
print(a.dtype)
a = a.astype(int) print(a.dtype)
print(a)
 print(np.shape(a))
 #print salaries of all employees
 print(a[::,1])
 #print bonus of all employees
 print(a[::,2])
 #print sum of salaries of all employees
 print(np.sum(a[::,1]))
 #print avg salary of all employees
print(np.sum(a[::,1])/len(a[::,1]))
 #print max salary
print(np.max(a[::,1]))
#print min bonus
print(np.min(a[::,2]))
```

```
 #print Employee Code whose salary is maximum
 index = np.argmax(a[::,1])
 print("Employee Codde:", a[index][0])
#print bonus of Employee whose salary salary is maximum
index = np.argmax(a[::,1])
print("Employee Bonus:", a[index][2])
 #print salaries in ascending
 print(np.sort(a[::,1]))
 #print employee code whose age > 40 or exp > 5
 c1 = a[::,3] > 40
 print(c1)
c2 = a[::,4] > 5
 print(c2)
print(a[c1 | c2,0])
```

Output:

```
[[1.0100e+02 7.5000e+04 2.5000e+04 3.6000e+01 6.0000e+00]
 [2.0100e+02 8.5000e+04 3.5000e+04 2.5000e+01 1.0000e+00]
[3.0100e+02 5.0000e+04 5.0000e+04 5.0000e+01 5.0000e+00]
[4.0100e+02 6.0000e+04 6.0000e+03 3.3000e+01 8.0000e+00]
[5.0100e+02 7.0000e+04 7.0000e+03 3.5000e+01 1.0000e+01]
 [1.0200e+02 7.6000e+04 2.5501e+04 3.7000e+01 7.0000e+00]
[2.0200e+02 8.6000e+04 3.5001e+04 2.6000e+01 2.0000e+00]
[3.0200e+02 5.1000e+04 5.0001e+04 5.1000e+01 6.0000e+00]
 [4.0200e+02 6.1000e+04 6.0010e+03 3.4000e+01 9.0000e+00]
[5.0200e+02 7.1000e+04 7.0010e+03 3.6000e+01 1.1000e+01]]
float64
int64
```

[[101 75000 25000 36 6]

[201 85000 35000 25 1]

[301 50000 50000 50 5]

[401 60000 6000 33 8]

[501 70000 7000 35 10]

[102 76000 25501 37 7]

[202 86000 35001 26 2]

[302 51000 50001 51 6]

[402 61000 6001 34 9]

[502 71000 7001 36 11]]

(10, 5)

[75000 85000 50000 60000 70000 76000 86000 51000 61000 71000]

[25000 35000 50000 6000 7000 25501 35001 50001 6001 7001]

685000

68500.0

86000

6000

Employee Codde: 202

Employee Bonus: 35001

[50000 51000 60000 61000 70000 71000 75000 76000 85000 86000]

[False False True False False False False True False False]

[True False False True True True False True True True]

[101 301 401 501 102 302 402 502]