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Batch: B1

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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 Code:", a[index][0])

#print bonus of Employee whose 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]

```
