EXAM 01   BY: Shriraj Pethe

1. Print employeename, job title OF total pay greater than 30000

> ```
>     $ awk  -F ' +' '$7 > 30000 {print $2, "\t", $3}' data.csv
> ```

```
Shri@PRODUCTIVITY-4 MINGW64 ~/Testing_Bridge/linux-content (master)
$ awk  -F ' +' '$7 > 30000 {print $2, "\t", $3}' data.csv
EmployeeName      JobTitle
NATHANIEL         GM
GARY       CAPTAIN
ALBERT     CAPTAIN
CHRISTOPHER       MECHANIC
PATRICK           DEPUTYCHIEF
DAVID      ASSTDEPUTY
ALSON      BATTALIONCHIEF
DAVID      DEPUTYDIRECTOR
JOANNE     CHIEF
PATRICIA          CAPTAIN
EDWARD     EXECUTIVE
```

2. read data.csv rows which have basepay greater than 99000

> ```
>     $ awk  -F ' +' '$4 > 99000 {print $0}' data.csv
> ```

```
Shri@PRODUCTIVITY-4 MINGW64 ~/Testing_Bridge/linux-content (master)
$ awk  -F ' +' '$4 > 99000 {print $0}' data.csv
Id EmployeeName JobTitle        BasePay OvertimePay OtherPay TotalPay TotalPayBenefits
1  NATHANIEL    GM              167411  0           400184   567595   567595
2  GARY         CAPTAIN         155966  245131      137811   538909   538909
3  ALBERT       CAPTAIN         212739  106088      16452    335279   335279
5  PATRICK      DEPUTYCHIEF     134401  9737        182234   326373   326373
6  DAVID        ASSTDEPUTY      118602  8601        189082   316285   316285
8  DAVID        DEPUTYDIRECTOR  256576  0           51322    307899   307899
10 JOANNE       CHIEF           285262  0           17115    302377   302377
12 PATRICIA     CAPTAIN         99722   87082       110804   297608   297608
13 EDWARD       EXECUTIVE       294580  0           0        294580   294580
```

3. print employeename and total pay

> ```
>     $ awk '{print $2, "\t", $7}' data.csv
> ```

```
Shri@PRODUCTIVITY-4 MINGW64 ~/Testing_Bridge/linux-content (master)
$ awk '{print $2, "\t", $7}' data.csv
EmployeeName      TotalPay
NATHANIEL         567595
GARY       538909
ALBERT     335279
CHRISTOPHER       332343
PATRICK           326373
DAVID      316285
ALSON      315981
DAVID      307899
JOANNE     302377
PATRICIA          297608
EDWARD     294580
```

4. find total (Agreegate) of totalpay ebenfits OF employees whos jobtitle is deputychief

> $ awk -F ' +' '$3 == "DEPUTYCHIEF" {sum += $8} END {print sum}' data.csv

```
Shri@PRODUCTIVITY-4 MINGW64 ~/Testing_Bridge/linux-content (master)
$ awk  -F ' +' '$3 == "DEPUTYCHIEF" {sum += $8} END {print sum}' data.csv
326373
```

5. Print job title and overtimepay WHO has overtime pay between 9000 and 25000

> $ awk -F ' +' '$5 >= 9000 && $5 <= 25000 {print $3, "\t", $5}' data.csv

```
Shri@PRODUCTIVITY-4 MINGW64 ~/Testing_Bridge/linux-content (master)
$ awk  -F ' +' '$5 >= 9000 && $5 <= 25000 {print $3, "\t", $5}' data.csv
DEPUTYCHIEF        9737
```

6. Extract TOTALPAY values and calculate it's average

> $ awk -F ' +' '{sum += $7 ; cnt++ } END {print "average of Totalpay: " sum/cnt}' data.csv

```
Shri@PRODUCTIVITY-4 MINGW64 ~/Testing_Bridge/linux-content (master)
$ awk -F ' +' '{sum += $7 ; cnt++ } END {print "average of Totalpay: " sum/cnt}'  data.csv
average of Totalpay: 327936
```

data.csv   :

```
Shri@PRODUCTIVITY-4 MINGW64 ~/Testing_Bridge/linux-content (master)
$ cat data.csv
Id EmployeeName JobTitle        BasePay OvertimePay OtherPay TotalPay TotalPayBenefits
1  NATHANIEL    GM              167411  0           400184   567595   567595
2  GARY         CAPTAIN         155966  245131      137811   538909   538909
3  ALBERT       CAPTAIN         212739  106088      16452    335279   335279
4  CHRISTOPHER  MECHANIC        77916   56120       198306   332343   332343
5  PATRICK      DEPUTYCHIEF     134401  9737        182234   326373   326373
6  DAVID        ASSTDEPUTY      118602  8601        189082   316285   316285
7  ALSON        BATTALIONCHIEF  92492   89062       134426   315981   315981
8  DAVID        DEPUTYDIRECTOR  256576  0           51322    307899   307899
10 JOANNE       CHIEF           285262  0           17115    302377   302377
12 PATRICIA     CAPTAIN         99722   87082       110804   297608   297608
13 EDWARD       EXECUTIVE       294580  0           0        294580   294580
```