

OS LAB MANUAL

(CS23431)

Lab:3

Roll No:230701263

4A)

EMPLOYEE AVERAGE PAY

Aim: To find out the average pay of all employees whose salary is more than 6000 and no. of days worked is more than 4

Program:

-To Create an awk script emp.awk:

```
BEGIN { print "EMPLOYEES  
DETAILS";  
totalPay = 0; count  
= 0;  
}  
{  
salaryearned = $2 * $3; if  
($2 > 6000 && $3 > 4) {  
print $2, salaryearned;  
totalPay += salaryearned;  
count++;  
}  
}
```

```

END { print "no of employees are=",
      count; print "total pay=", totalPay; if
      (count > 0) {
          avgPay = totalPay / count; print
          "average pay=", avgPay;
      } else {
          print "average pay= 0";
      }
}

```

Input:

-To Create a flat file emp.dat:

```

Alice 7000 5
Bob 4000 6
Cathy 6500 3
David 8000 6

```

Output:

```

EMPLOYEES DETAILS
7000 35000
8000 48000
no of employees are= 2
total pay= 83000
average pay= 41500

```

4B)

RESULTS OF EXAMINATION

Aim: To print the pass/fail status of a student in a class.

Program Code:

marks.awk:

```
{
    status = "Payya pass pa"; for
    (i = 2; i <= NF; i++) {
        if ($i < 45) { status = "Fail ahh,but
            keep trying"; break;
        }
    }
    print $0, status;
}
```

Input:

-marks.dat

```
Kumar 65 88 72
Rekha 35 78 60
Anil 50 45 44
```

Output:

```
Kumar 65 88 72 Payya pass pa
Rekha 35 78 60 Fail ahh,but keep trying
Anil 50 45 44 Fail ahh,but keep trying
```