**EXPERIMENT NO: 01**

**AIM: Exploring AWK Commands**

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**Batch : 01**

### **Introduction**

**AWK is a powerful text-processing tool used for pattern scanning and processing. It is widely used in Linux/Unix for data extraction and reporting. Below are some fundamental AWK commands demonstrated using a sample dataset.**

### **Dataset (emp.txt)**

ajay manager account 45000

sunil clerk account 25000

varun manager sales 50000

amit manager account 47000

tarun peon sales 15000

deepak clerk sales 23000

sunil peon sales 13000

### **Basic AWK Commands**

#### **1. Display the entire file**

**aiktc@CO-LAB02-23:~/Desktop$ awk '{print}' emp.txt**

**Output:**

ajay manager account 45000

sunil clerk account 25000

varun manager sales 50000

amit manager account 47000

tarun peon sales 15000

deepak clerk sales 23000

sunil peon sales 13000

#### **2. Display only the records where the designation is 'manager'**

**aiktc@CO-LAB02-23:~/Desktop$ awk '/manager/{print}' emp.txt**

**Output:**

ajay manager account 45000

varun manager sales 50000

amit manager account 47000

#### **3. Display only the records where the designation is 'clerk'**

**aiktc@CO-LAB02-23:~/Desktop$ awk '/clerk/{print}' emp.txt**

**Output:**

sunil clerk account 25000

deepak clerk sales 23000

#### **4. Print only Employee Names and Salaries**

**aiktc@CO-LAB02-23:~/Desktop$ awk '{print $1,$4}' emp.txt**

**Output:**

ajay 45000

sunil 25000

varun 50000

amit 47000

tarun 15000

deepak 23000

sunil 13000

#### **5. Print Line Number along with Data**

**aiktc@CO-LAB02-23:~/Desktop$ awk '{print NR,$0}' emp.txt**

**Output:**

1 ajay manager account 45000

2 sunil clerk account 25000

3 varun manager sales 50000

4 amit manager account 47000

5 tarun peon sales 15000

6 deepak clerk sales 23000

7 sunil peon sales 13000

#### **6. Print First and Last Column (Employee Name & Salary)**

**aiktc@CO-LAB02-23:~/Desktop$ awk '{print $1,$NF}' emp.txt**

**Output:**

ajay 45000

sunil 25000

varun 50000

amit 47000

tarun 15000

deepak 23000

sunil 13000

#### 

1. **Compiling C Program**

**aiktc@CO-LAB02-23:~/Desktop$ gcc read.c -o OutputRead**

**Running the compiled program:**

**aiktc@CO-LAB02-23:~/Desktop$ ./OutputRead**

**Output:**

this is output readfile

this is output readfile

#### **2. Creating & Viewing Text Files**

**aiktc@CO-LAB02-23:~/Desktop$ cat > first.txt**

this is my systemcall program

first and second .txt file is created in it

**aiktc@CO-LAB02-23:~/Desktop$ cat first.txt**

**Output :**

this is my systemcall program

first and second .txt file is created in it