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EXP 4 AWK SCRIPT

EXP 4A EMPLOYEE AVG PAY

PROGRAM:

```
# Begin block to initialize variables
BEGIN {
    print "EMPLOYEE DETAILS"
    total_salary = 0
    count = 0
}

# Processing each line (skip header)
NR > 1 {
    # Calculate total salary (SalaryPerDay * DaysWorked)
    total = $2 * $3

    # Check if SalaryPerDay > 6000 and DaysWorked > 4
    if ($2 > 6000 && $3 > 4) {
        print $1, total  # Print the name and the total salary for this employee
        total_salary += total  # Add to total salary
        count++  # Increment count of employees meeting the criteria
    }
}

# After processing all records, compute and print total number of employees, total pay, and average pay
END {
    if (count > 0) {
        avg_salary = total_salary / count  # Calculate the average salary
        print "no of employees are =", count
        print "total pay =", total_salary
        print "average pay =", avg_salary
    } else {
        print "No employees satisfy both conditions (SalaryPerDay > 6000 and DaysWorked > 4)."
    }
}
```

```
JIM 8000 5
RAM 7000 6
TIM 8000 9
BEN 4000 5
```

OUTPUT:

```
JIM 40000
RAM 42000
TIM 72000
no of employees are= 3
total pay= 154000
average pay= 51333.3
```

EXP 4B RESULTS OF AN EXAMINATION

PROGRAM:

```
# Process each student record
{
    pass = 1  # Assume pass unless a mark is below 45
    for (i = 2; i <= NF; i++) {  # Start from column 2 to the last column
        if ($i < 45) {
            pass = 0  # Fail if any subject mark is below 45
            break  # No need to check further if already failed
        }
    }

    # Print Pass or Fail based on the condition
    if (pass == 1) {
        print $1, "Pass"
    } else {
        print $1, "Fail"
    }
}
```

```
ben 40 55 66 77 55 77
tom 60 67 84 92 90 60
ram 90 95 84 87 56 70
jim 60 70 65 78 90 87
~
```

OUTPUT:

```
NAME SUB-1 SUB-2 SUB-3 SUB-4 SUB-5 SUB-6 STATUS

BEN    40      55      66      77      55      77      FAIL
TOM    60      67      84      92      90      60      PASS
RAM    90      95      84      87      56      70      PASS
JIM    60      70      65      78      90      87      PASS
```