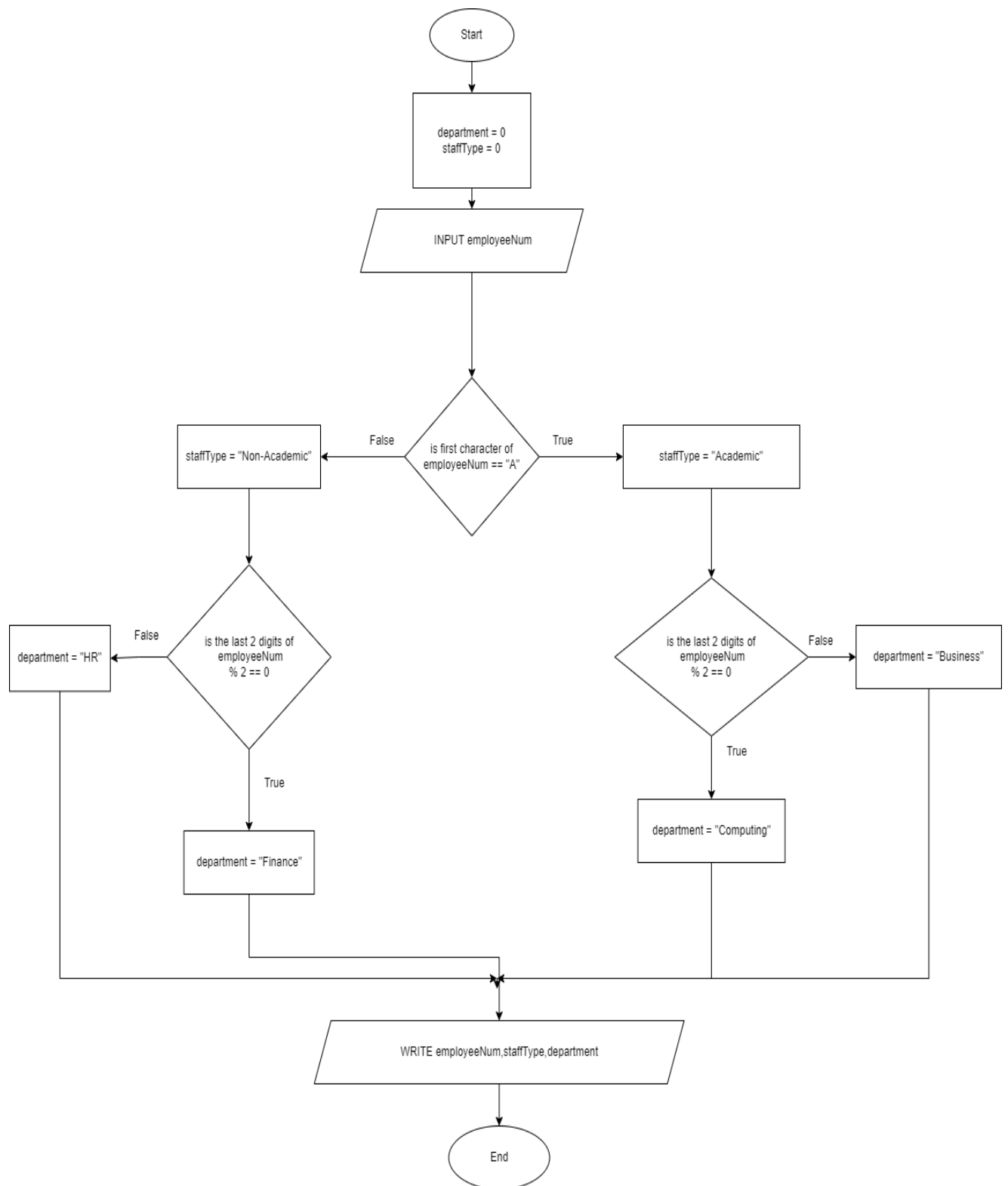## Group 14 – Case study 3

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1)

```
                              ┌─────────┐
                              │  Start  │
                              └─────────┘
                                   │
                                   ▼
                         ┌───────────────────┐
                         │  department = 0   │
                         │  staffType = 0    │
                         └───────────────────┘
                                   │
                                   ▼
                         ╱─────────────────────╲
                         │  INPUT employeeNum  │
                         ╲─────────────────────╱
                                   │
                                   ▼
                              ◇ is first character of employeeNum == "A" ◇
```

False ──── is first character of employeeNum == "A" ──── True

staffType = "Non-Academic"   staffType = "Academic"

is the last 2 digits of employeeNum % 2 == 0

False ──── department = "HR"

True ──── department = "Finance"

is the last 2 digits of employeeNum % 2 == 0

False ──── department = "Business"

True ──── department = "Computing"

WRITE employeeNum,staffType,department

End

2)

```
Start
Get employeeNum
IF (employeeNum[0]) == 'A' THEN:
     staffType = 'Academics'
     IF (integer(emloyeeNum[5:7])) % 2 == 0 THEN:
          department = 'Computing'
     ELSE THEN:
          department = 'Business'
     END IF


ELSE THEN:

     staffType = 'Non – Academic'

     IF (integer(emloyeeNum[5:7])) % 2 == 0 THEN

          department = 'Finance'

     ELSE THEN

          Department = 'HR'

     END IF

END IF

OPEN file
WRITE employeeNum, staffType, department to a file
CLOSE file

STOP
```