STAT2005 Programming Languages for Statistics
Exercise for Chapter 9

1. Write SAS programs to read the data in (a) and (b) to create a temporary dataset, called `q1a` and `q1b` respectively, which contains three variables, namely `Name`, `SID` and `Year`. Output the datasets. Variables `Name` and `SID` are character while `Year` is numeric. You are not allowed to use assignment statement to create any of the above three variables.

(a)

```
Chan Tai Man  12345 1
Cheung Tai Man  23456 2
Wong Tai Man  34567 3
```

(b)

```
Chan Tai Man  12345 1 Cheung Tai Man  23456 2 Wong Tai Man  34567 3
```

2. Write SAS programs to read the data in (a) and (b) to create a temporary dataset, called `q2a` and `q2b` respectively, which contains three variables, namely `Name`, `Age` and `District`. Output the datasets. Variables `Name` and `District` are character while `Age` is numeric. You are not allowed to use assignment statement to create any of the above three variables.

(a)

```
Chan Tai Man;16;MK
Cheung Wing Yan;21;ST
Wong Wai Shing;18;TKO
Suen King Fung;19;TST
```

(b)

```
Chan Tai Man     16 MK
Cheung Wing Yan  21 ST
Wong Wai Shing   18 TKO
Suen King Fung   19 TST
```

3. Write SAS programs to read the data in `ex9_q3.dat` to create a temporary dataset, called `q3`, which contains four variables, namely `Time`, `Flight_code`, `Airline` and `Destination`. Output and print the dataset. `Airline` is equal to the first two characters of `Flight_code`. All variables are characters. The first record should have `Time = 58200` (converted from `"16:10"`), `Flight_code = "CX542"`, `Airline = "CX"`, `Destination = "HND"`. You are not allowed to use assignment statement to create any of the above four variables.