The Hang Seng University of Hong Kong Department of Mathematics, Statistics and Insurance AIN2740 Computing for Statistical Analysis

Exercise – R Dataset

R Code Question:

Follow step (i) to Mark_gender2.txt in Mark_gender2.txt and print the dataset. Read Mark_gender1.txt and Mark_gender1.txt and Mark_gender2.txt in Mark_gender2.txt in

- (i) Merge dataset mark_g1 and mark_g2 by sid, make the combined dataset as mark1.
- (ii) Convert variable pate gridgenden center for Pariables 4s fletors from taket market
- (iii) Omit incomplete cases of mark1 and rename the dataset as mark_c.
- (iv) Subset observations in dataset many to the dataset in descending order of variable total, rename the dataset as mark_fAo.
- (v) Subset observations in gataset math 3 where arise ca is over 70, then sort the dataset in ascending order of variable f_name, rename the dataset as mark_cao.
- (vi) Use if else function to test the gender of students for dataset mark_c. Rename the result with a vector call gender is female" for M and "The student's gender is female" for F.
- (vii)Create a for loop, use if function to test whether the variable total is greater than or equal to 80. Print the total if it is true.

Remember to save as your R Script file according to "StudentID_ChapterX" and upload. Read the submission guideline in Lecture Notes - Lesson 0 carefully before submitting to moodle.

- (1) How many observation(s) are there in mark1 in part (i)?
- (2) What is the 30th element in the factor grade in part (ii)?
- (3) What is the element of row 67 and column 7 of data frame mark_c in part (iii)?
- (4) What is the row dimension of data frame mark_fAo?
- (5) What is the element of row 14 and column 1 of data frame mark_cao?
- (6) What is the 50th element in the vector gen_s?
- (7) What is the last element in the result in part (vii)?