**AGS – R Coding Test**

**Instructions** –

1. Please complete and share all the answers within **2 days** after you receive this test.
2. Use the latest R/RStudio version for attempting these questions
3. The input data for the questions is available as excel files at the end of this document.
4. Make use of any tidyverse package as a first choice

**Questions**

1. Create a **library in R** with a function which takes a tibble as input (Refer Q1a – Input.xlsx) and creates descriptive statistics. The output of that function should be an excel file (Refer Q1a – Output.xlsx) to be created at the user defined path.
2. Once the function specified in Q1 above are created, profile your R Code for each function and share summary. What additional code changes can be done to ensure the function is efficient
3. Explain the steps taken to ensure the functions are scalable and reproducible
4. Given the following functions -

f <- function(a) g(a)

g <- function(b) h(b)

h <- function(c) i(c)

i <- function(d) {

if (!is.numeric(d)) {

stop("`d` must be numeric", call. = FALSE)

}

d + 10

}

If the following function is called as mentioned below, an error is received. Please fix the error and explain how you would debug the error –

> f(“a”)

