**R Programming \_Basic\_Task 1**

1. Vector recycling

c(1,2,3) + c(3,4,5)

=> 4, 6, 8

1. Inner multiplication

m <- matrix(1:8, nrow=2)

print(m)

=> [,1] [,2] [,3] [,4]

[1,] 1 3 5 7

[2,] 2 4 6 8

1. Outer multiplication

m <- outer(1:3, 1:3, "\*")

print(m)

=> [,1] [,2] [,3]

[1,] 1 2 3

[2,] 2 4 6

[3,] 3 6 9

1. Functions
   1. sample()

sample(1:3) => random 1,2,3

* 1. seq()

seq(3) => 1,2,3

* 1. rep()

rep(1:4, 2) => 1,2,3,4,1,2,3,4

* 1. round()

round(1.52) => 2

* 1. factorial()

factorial(4) => 24

* 1. is()

is.function(1)

is.primitive(is.function) => True

* 1. mean()

main(1, 5) => 3

* 1. set.seed()

set.seed(3)

rnorm(3) => -0.9619334 -0.2925257 0.2587882

1. subset

subset(airquality, Temp > 93, select = c(temp))

=> 120 97

121 94

122 96

123 94

1. Write a program to calculate the BMI rate?Get the user input & Result should be in integer.

BMI = 46/1.70

print(as.integer(BMI))

=> 27

1. Create a function to calculate the BMI Rating? Result should be in integer?

BMI <- function() {

print(as.integer(46/1.70))

}

BMI()

=> 27