**FOUNDATIONAL R PROJECT 1**

**1. Create the following vectors in R.**

**a = (5, 10, 15, 20, ..., 160) b = (152, 153, 154, 155, ...,7)**

**Use vector arithmetic to multiply these vectors and call the result ‘d’.**

**Select subsets of d to identify the following.**

** What are the 19th, 20th, and 21st elements of d?**

** What are all of the elements of d which are less than 2000?**

** How many elements of d are greater than 6000?**

**2. Create a vector with some of your friend’s names**

** Get the first two friends from above vector**

** Sort your friends by names using 2 methods**

**3. Create three vectors x,y,z with integers and each vector has 3 elements.**

**Combine the three vectors to become a 3×3 matrix A where each column**

**represents a vector.**

**4. Make a script file which constructs three random normal vectors of length**

**100. Call these vectors x1, x2 and x3. Make a data frame called t with three**

**columns**

**5. Use the ‘arthritis’ data frame, to get the summary and the top 6 rows**

**(70 Mrks)**

**NB: compile the screenshots of your work in a word document**