**Assignment 2**

**Due Date:7 Jan,2022**

**Question 1**

An office building contains 27 floors and has 37 offices on each floor. How many offices are in the building?

**Question 2**

A particular brand of shirt comes in 12 colors, has a male version and a female version, and comes in three sizes for each sex. How many different types of this shirt are made?

**Question 3**

Six different airlines fly from New York to Denver and seven fly from Denver to San Francisco. How many different pairs of airlines can you choose on which to book a trip from NewYork to San Francisco via Denver, when you pick an airline for the flight to Denver and an airline

for the continuation flight to San Francisco?

**Question 4**

What is the minimum number of employees required in a company to be sure

that at least 10 will have the same rank rank, if there are six possible ranks, 17,18,19,20,21,22?

**Question 5**

Show that if there are 90 colleagues in an office , then at least 4 will have have their first names that begin with the same letter.