

# **PDC Assignment #04**

## **Report**

### **Question 1:**

#### **Mapper Function:**

As we know that map function sends 2 parameters so, I have taken:

**Key:** value pair (Bigrams)

**Values:** integer (1)

#### **Reducer Function:**

As we know that Reducer function takes 4 parameters tow for input and to for output , I have taken:

#### **Input parameters(same as Mapper function):**

**Key:** value pair (Bigrams)

**Values:** integer (1)

Output parameters:

**Key:** value pair (Bigrams)

**Values:** integer sum for each pair

### **Question 2: Part(a)**

#### **Mapper Function:**

As we know that map function sends 2 parameters so, I have taken:

**Key:** Discipline (e.g., BCCS)

**Values:** integer (1)

#### **Reducer Function:**

As we know that Reducer function takes 4 parameters tow for input and to for output , I have taken:

#### **Input parameters(same as Mapper function):**

**Key: :** Discipline (e.g., BCCS)

**Values:** integer (1)

Output parameters:

**Key:** Discipline (e.g., BCCS)

**Values:** integer sum for each discipline

## Question 2: Part(b)

**Mapper Function:**

As we know that map function sends 2 parameters so, I have taken:

**Key:** City

**Values:** integer (1)

**Reducer Function:**

As we know that Reducer function takes 4 parameters tow for input and to for output , I have taken:

**Input parameters(same as Mapper function):**

**Key :** City

**Values:** integer (1)

Output parameters:

**Key:** Name of region

**Values:** integer sum for each cities of the respective region.