**National University of Computer & Emerging Sciences, Karachi** **Spring 2021**S.M.HassanAli (20k-1052) Assignment 1

Q1.

1) Senzu beans, offices, country, head, expenditure

2) Below are the entities and their relation according to relevance to the class Universe7;

Offices: Set up for exporting Senzu beans.

Head: Who will control the office.

3)

**class Universe7{**

**double amount; //quantity of senzu beans to be exported**

**string of[n]; //offices with respect to different regions**

**string hnames[n]; //head names with respect to different offices in the region**

**const double elecunit; //electricity unit per day a constant data member**

**double profit; //daily expense could be all added and then dedudcted for profit**

**public:**

**Universe7():elecunit(56.50){ //a user defined default constructor along with initialization of constant member**

**//here the initialization of some of the other data members will take place**

**}**

**dailyoperations(){**

**dailyconsumption();**

**calcprofit&expense();**

**printingprofit&expense();**

**//definitions of each function**

**}**

**};**

**int main(){**

**Universe7 office[n],head[n];**

**office[n].dailyoperations(); //this will call all the functions required for**

**head[n].dailyconsumption(); //the head of each office can also do the same work one by one**

**head[n].calcprofit&expense();**

**head[n].printingprofit&expense();**

**}**