**ASSIGNMENT- 4**

**Yaswanth Yarlagadda**

**99999-2918**

**Part-1**

§ **Question 1.1:** According to Ferenc, which algorithm was discovered during WWII and what was it used for?

**Answer:**

During World War-II Simplex Algorithm is discovered and it is used for Military logistics

§ **Question 1.2:** Ferenc mentioned two paradigms for modeling, math was one of them, which was the other?

**Answer:**

The other paradigm for modelling is Rule based

§ **Question 1.3:** Given these two paradigms, which (according to Ferenc's comments) is best suited for systems that are changing more rapidly?

**Answer:**

Math

§ **Question 1.4:** List at least one use case / industry mentioned by Ferenc in the middle of his interview that is heavily using optimization algorithms and prescriptive analytics?

**Answer:**

Manufacturing of Pharma cuticles (Chemical industry)

§ **Question 1.5:** Even though this is a mature area of business analytics, it is still growing. Toward the end of the interview Ferenc mentions an important direction IBM is taking (among the other players in the area)? What is this direction?

**Answer:**

DuCplex cloud and deploymentational cloud - where the cloud services are given by hourly rental basis