Coursework – due 25/11 requirements

Taiyeb – feature one

Saima – feature two

Create a digital family tree

Cornelia Emmersohn – Indian/Asian roots

Otto Emmersohn – ancestors all over Europe

Emmersohn family

Must have: parents, name (not every detail needs to be known)

Record for every person

**Features**

* Enter a family name
* Add a name to the family tree
* Person inputs their family name, birthday and name
* Show existing families
* Create a big family tree between cornelia and otto.

**Data structure type**

1. Node – to represent an individual in the family tree with attributes such as: a unique identifier, name, relationship, birthday.
2. Edge: representing the relationship between the nodes (such as parent-child, spouse – parent)
3. A screen shot of a computer program

   Description automatically generatedGraph – collection of nodes and edges to make a hierarchal structure of a family tree.
4. Class based tree structure (OOP approach)

Define a class to represent each individual.

Each object will have attributes.

1. Dictionary based structure

Use a dictionary where each key represents a person and the value is either another dictionary or list that represents different relationships. A computer code with white text

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**Classes – data and methods required.**

1. Class: person

Attributes:

* + 1. Family Name
    2. Spouse
    3. Birthday
    4. Name
    5. Children

A screenshot of a computer program

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Ancestor of Cornelia (at-least 10)

Family name, birthday, name

1. Grandmother, 16/07/1932, Krishna

2. Grandfather, 23/12/1928, Alex

3. Aunt, 09/04/1978, Shanaya

4. Uncle, 02/11/1976, Gian

5. Aunt, 29/01/1988, Taara

6. Uncle, 12/05/1996, Hem

7. Uncle, 03/04/2000, Idhant

8. Neice, 19/09/2009, Tarin

9. Nephew, 17/01/2012, Jay

10. Nephew, 26/08/2016, Kahaan

Ancestor of otto (at-least 10)

Family name, birthday, name

1.Grandmother, 11/08/1942, Flora

2. Grandfather, 22/12/1940, Felix

3. Uncle, 08/02/1956, Hugo

4. Aunt, 12/05/1960, Jasmine

5.Aunt, 30/08/1962, Saskia

6.Aunt, 25/03/1969, Amelia

7. Aunt, 17/02/1971, Zara

8.Uncle, 20/12/1975, Astrid

9.nephew, 19/02/1999, Nico

10. niece, 08/08/2004, June