**MIDDLE EAST TECHNICAL UNIVERSITY**

**DEPARTMENT OF BUSINESS ADMINISTRATION**

**BA 4318 – BUSINESS DATA PROCESSING WITH PYTHON**

**Homework #2**

**Problem:**

Your program is expected to ask for a person's age, check if that person is an adult, adolescent, child or infant, and finally print the classification.

* Adults are ages above 19.
* Children are ages 0 to 19 (inclusive) of which
  + Adolescents are 10 to 19 (inclusive).
  + Infants are age less than 1.

**Approach:**

First of all, we should examine the problem properly. Then, our variables should be defined. Variables are essentially storage for data in our program. Here, we can define our variables as:

- “age”

age >= 19

age >= 0 and age <= 19

age >= 10 and age <= 19

age <= 1

- “classification”

age >= 19

classification = “**adult**”

age >= 0 and age <= 19

classification = “**children**”

age <= 1

classification = “**infant**”

age >= 10 and age <= 19

classification = “**adolescent**”

Our input can be **“what is your age?”** or **“how old are you?**”. Then we should define the variable **“age”** that stores the value **“what is your age?”** and the variable **“classification”** that stores the value **“adult”, “children”, “infant”, “adolescent”.** This will allow us to later print **what is your age?** on the screen by just using the variable name like age and classification that stores this value instead of having to type the value **what is your age?** every time we want to use it.

After coding these, we should run the program.