**MODULE – 3 ASSIGNMENT**

**Conditional Statements**

**I. Please write Python Programs for all the problems.**

1. Take a variable ‘age’ which is of positive value and check the following:
2. If the age is less than 10, print “Children”.
3. If the age is more than 60, print ‘senior citizens’.
4. If it is between 10 and 60, print ‘normal citizen’.
5. Find the final train ticket price with the following conditions.
6. If male and ‘sr.citizen’, 70% of the fare is applicable
7. If female and ‘sr.citizen’, 50% of the fare is applicable.
8. If a female and a normal citizen, 70% of the fare is applicable.
9. If a male and a normal citizen, 100% of the fare is applicable.

[Hint: First check for the gender, then calculate the fare based on the age factor. For both ‘Male’ and ‘Female’, consider them as sr.citizens if their age >=60]

1. Check whether the given number is positive and divisible by 5 or not.

**Conditional Statements**

**II. Please implement Python coding for all the problems.**

1. A) list1 = [1, 5.5, (10+20j), ’data science’]. Print default functions and parameters exist in list1.

B) How do we create a sequence of numbers in Python?

C) Read the input from the keyboard and print a sequence of numbers up to that number

1. Create 2 lists: One list contains 10 numbers (list1 = [0, 1, 2, 3....9]) and another

list contains words of those 10 numbers (list2 = ['zero', 'one', 'two', ...., 'nine']).

* 1. Create a dictionary such that list2 are keys and list1 are values.

1. Consider list1 [3, 4, 5, 6, 7, 8]. Create a new list2 such that Add 10 to the even number and multiply with 5 if it is an odd number in the list1.

4. Write a simple user-defined function that greets a person in such a way that:

i) It should accept both the name of a person and the message you want to deliver.

ii) If no message is provided, it should greet a default message ‘How are you’.

Ex: Hello ---xxxx---, How are you - default message.

Ex: Hello ---xxxx---, --xx your message xx---