**Assignment 1: 8th March 2021**

**Data Structures & Algorithm**

**Q1) Write a python program that takes two numbers as the input as X and Y and the print result of X^Y(X to the power of Y)**

**Sol:**

**def power(x,y):**

**t=1**

**for i in range (y):**

**t=t\*x**

**return t**

**x=int(input("Give x in x to the power y \n"))**

**y=int(input("Give y in x to the power x \n"))**

**j=power(x,y)**

**print(x, " to the power of ", y," is ", j)**

**Output :**

**Give x in x to the power of y : 5**

**Give y in x to the power of x : 2**

**Result : 25**

**Question 2 :Write a Python program to print the numbers in the list which are divisible by 3.**

**Sol :**

**lower = int(input("Enter lower range limit:"))**

**upper = int(input("Enter upper range limit:"))**

**for i in range(lower, upper+1):**

**if(i%3==0):**

**print(i)**

**Output : Enter lower range limit :10**

**Entery upper range limit : 20**

**12**

**15**

**18**