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

**Program:**

X = int(input("Enter the first number"))

Y = int(input("Enter the second number"))

result = X \*\* Y

print("The result of X to the power of Y is ", result)

**Solution:**

Enter the first number 5

Enter the second number 3

The result of X to the power of Y is 125

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

**Method1**

**Program:**

num\_list = [1,3,7,9,11,12,14,16,18,19,21]

result = list(filter(lambda x: (x % 3 == 0), num\_list))

print("Numbers divisible by 3 are",result)

**Solution:**

Numbers divisible by 3 are [3, 9, 12, 18, 21]

**Method2**

**Program:**

num\_list = [1,3,7,9,11,12,14,16,18,19,21]

for num in num\_list:

if num % 3 == 0:

print(num, end = " ")

**Solution:**

3 9 12 18 21