1. Write a Python Program to Find LCM?

**Ans:- import math**

**def num(a, b):**

**result = math.gcd(a, b)**

**LCM = a\*b/result**

**print(f"The LCM of {a}, and {b} is: {LCM} and the HCF is: {result}")**

**num(12, 18)**

1. Write a Python Program to Find HCF?

**Ans:- Import math**

**def num(a, b):**

**HCF = math.gcd(a,b)**

**print(f”The HCF of both the number is: {HCF}”)**

**num(12, 18)**

1. Write a Python Program to Convert Decimal to Binary, Octal and Hexadecimal?

**Ans:- For Decimal to Binary:**

**result = []**

**x = int(input("enter a number: "))**

**while x > 1:**

**result.append(x%2)**

**x = x // 2**

**result.append(x) # Add the final value of x to the result**

**print(result)**

**Octal to Hexadecimal:**

**def octal\_to\_hexadecimal(octal):**

**# Convert octal to decimal**

**decimal = 0**

**power = 0**

**while octal != 0:**

**decimal += (octal % 10) \* (8 \*\* power)**

**octal //= 10**

**power += 1**

**# Convert decimal to hexadecimal**

**hexadecimal = ""**

**while decimal != 0:**

**remainder = decimal % 16**

**if remainder < 10:**

**hexadecimal = str(remainder) + hexadecimal**

**else:**

**hexadecimal = chr(remainder + 55) + hexadecimal**

**decimal //= 16**

**return hexadecimal**

**# Test the function**

**octal\_number = int(input("Enter an octal number: "))**

**hexadecimal\_number = octal\_to\_hexadecimal(octal\_number)**

**print("Hexadecimal: ", hexadecimal\_number)**

1. Write a Python Program To Find ASCII value of a character?

**Ans:- # Prompt the user to enter a character**

**character = input("Enter a character: ")**

**# Convert the character to its ASCII value**

**ascii\_value = ord(character)**

**# Print the ASCII value**

**print("The ASCII value of", character, "is", ascii\_value)**

1. Write a Python Program to Make a Simple Calculator with 4 basic mathematical operations?

**Ans:- def addition(a, b):**

**return a + b**

**def multiplication(a, b):**

**return a \* b**

**def substraction(a, b):**

**return a - b**

**def divide(a, b):**

**return a / b**

**print(divide(34, 98))**