In [1]:
```
#Q1)Write a Python Program to Find LCM?
```

In [8]:
```
def LCM(num_1,num_2):
    try:
        #selecting the greater value
        if num_1>num_2:
            greater_value = num_1
            smaller_value = num_2
        else:
            greater_value =  num_2
            smaller_value = num_1
        while(True):
            if((greater_value%num_1==0) and (greater_value%num_2==0)):
                lcm = greater_value
                break
            greater_value = greater_value+1


        print(f'THe LCM of two numbers {num_1} and {num_2} is {lcm}')

    except Exception as e:
        print(e)
```

In [9]:
```
#Example1: 10 15
num_1,num_2 = map(int, input("Enter the values \n").split())
LCM(num_1,num_2)
```

```
Enter the values
10 15
THe LCM of two numbers 10 and 15 is 30
```

In [10]:
```
#Example1: 20 50
num_1,num_2 = map(int, input("Enter the values \n").split())
LCM(num_1,num_2)
```

```
Enter the values
20 50
THe LCM of two numbers 20 and 50 is 100
```

In [ ]:
```

```

In [11]:
```
#Q2)Write a Python Program to Find HCF?
```

In [13]:
```
def HCF(num_1,num_2):
    try:
        #selecting the greater value
        if(num_1>num_2):
            greater_value = num_1
            smaller_value = num_2
        else:
            greater_value =  num_2
            smaller_value = num_1

        for i in range(1,smaller_value+1):
            if((num_1%i==0) and (num_2%i==0)):
                hcf = i


        print(f'THe HCF of two numbers {num_1} and {num_2} is {hcf}')

    except Exception as e:
        print(e)
```

In [14]:
```
#Example1: 10 15
num_1,num_2 = map(int, input("Enter the values \n").split())
HCF(num_1,num_2)
```

```
Enter the values
10 15
THe HCF of two numbers 10 and 15 is 5
```

In [59]:
```
#Example1: 20 50
num_1,num_2 = map(int, input("Enter the values \n").split())
HCF(num_1,num_2)
```

```
Enter the values
20 50
THe HCF of two numbers 20 and 50 is 10
```

In [ ]:
```

```

In [16]:
```
#Q3)Write a Python Program to Convert Decimal to Binary, Octal and Hexadecimal?
```

In [36]:
```
def conversion(dec_number):
    try:
        binary = bin(dec_number) #Built in function to  convert decimal number into binary
        print(f'The binary equivalent of decimal_number {dec_number} is {binary[2:]}')
        octal = oct(dec_number) #Built in function to convert decimal number into ocatl
        print(f'The ocatl equivalent of decimal_number {dec_number} is {octal[2:]}')
        hexa_decimal = hex(dec_number) #Built in function to convert binary number into hexa_decimal number
        print(f'The hexa equivalent of decimal_number {dec_number} is {hexa_decimal[2:]}')

    except Exception as e:
        print(e)
```

In [39]:
```
#Example 1: 25
dec_number = int(input("Enter the decimal number\n"))
conversion(dec_number)
```

```
Enter the decimal number
25
The binary equivalent of decimal_number 25 is 11001
The ocatl equivalent of decimal_number 25 is 31
The hexa equivalent of decimal_number 25 is 19
```

In [40]:
```
#Example 1: 255
dec_number = int(input("Enter the decimal number\n"))
conversion(dec_number)
```

```
Enter the decimal number
255
The binary equivalent of decimal_number 255 is 11111111
The ocatl equivalent of decimal_number 255 is 377
The hexa equivalent of decimal_number 255 is ff
```

In [ ]:
```

```

In [41]:
```
#Q4)Write a Python Program To Find ASCII value of a character?
```

In [46]:
```
def ASCII(char):
    try:
        print(f'The ascii value of a given character {char} is {ord(char)}')

    except Exception as e:
        print(e)
```

In [48]:
```
#Example 1: 'a'
char = input("Enter a character to find out the ascii value\n")
ASCII(char)
```

```
Enter a character to find out the ascii value
a
The ascii value of a given character a is 97
```

In [49]:
```
#Example 1: 'A'
char = input("Enter a character to find out the ascii value\n")
ASCII(char)
```

```
Enter a character to find out the ascii value
A
The ascii value of a given character A is 65
```

In [ ]:
```

```

In [50]:
```
#Q5)Write a Python Program to Make a Simple Calculator with 4 basic mathematical operations?
```

In [58]:
```
class Mathematical_operations:
    def __init__(self,num_1,num_2):
        self.num_1 = num_1
        self.num_2 = num_2

    def Addition(self):
        print(f'The addition of two numbers {self.num_1} and {self.num_2} is {self.num_1+self.num_2}')

    def subtraction(self):
        print(f'The subtarction of two numbers {self.num_1} and {self.num_2} is {self.num_1-self.num_2}')

    def Multiplication(self):
        print(f'The multiplication of two numbers {self.num_1} and {self.num_2} is {self.num_1*self.num_2}')

    def divison(self):
        print(f'The dividon of two numbers {self.num_1} and {self.num_2} is {self.num_1/self.num_2}')
```

In [66]:
```
operation = input("Enetr a mathematical operation{Addition:1,subtraction:2,multiplication:3,divisionn:4}")
```

```
Enetr a mathematical operation{Addition:1,subtraction:2,multiplication:3,divisionn:4}1
```

In [67]:
```
num_1,num_2 = map(int, input("Enter the values \n").split())
operator = Mathematical_operations(num_1,num_2)
```

```
Enter the values
2 3
```

In [68]:
```
if operation =='1':
    operator.Addition()

elif operation == '2':
    operator.subtraction()


elif operation == '3':
    operator.Multiplication()

else:
    operator.divison()
```

```
The addition of two numbers 2 and 3 is 5
```

In [ ]:
```

```

In [ ]:
```

```

In [ ]:
```

```