1. Write a Python Program to Find LCM?

In [12]:
```
def lcm(a,b):
    for i in range(1,a*b+1):
        if i%a==0 and i%b==0:
            print("LCM is ",i)
            break
```

In [13]:
```
lcm(21,14)
```

```
LCM is  42
```

In [14]:
```
lcm(100,25)
```

```
LCM is  100
```

2. Write a Python Program to Find HCF?

In [15]:
```
def hcf(a,b):
    d1=max(a,b)
    d2=min(a,b)
    while d1%d2!=0:
        r=d1%d2
        d1=d2
        d2=r
    print("HCF is ",d2)
```

In [16]:
```
hcf(25,15)
```

```
HCF is  5
```

In [17]:
```
hcf(100,25)
```

```
HCF is  25
```

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

In [96]:
```
def check_bin(v):
    l=[]
    while v>=1:
        v1=v//2
        v2=v%2
        l.append(v2)
        #print(v2)
        v=v1
    l.reverse()
    print(''.join([str(ele) for ele in l]))
```

In [97]:
```
check_bin(34)
```

```
100010
```

In [135]:
```
def check_oct_hex(v):
    print("Octal value of {} is {}".format(v,oct(v)))
    print("Hexadecimal value of {} is {}".format(v,hex(v)))
```

In [136]:
```
check_oct_hex(33)
```

```
Octal value of 33 is 0o41
Hexadecimal value of 33 is 0x21
```

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

In [149]:
```
def ascii_val(v):

    print("ASCII of {} is {}".format(v,ord(v)))
```

In [150]:
```
ascii_val('g')
```

```
ASCII of g is 103
```

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

In [156]:
```
print("Input 1 for addition \nInput 2 for subtraction \nInput 3 for multiplication \nInput 4 for division")
choice=int(input("Enter your choice of operation:"))
val1=int(input("Enter first value:"))
val2=int(input("Enter second value:"))
if choice==1:
    print("{} + {} = {}".format(val1,val2,val1+val2))
elif choice==2:
    print("{} - {} = {}".format(val1,val2,val1-val2))
elif choice==3:
    print("{} * {} = {}".format(val1,val2,val1*val2))
if choice==4:
    print("{} / {} = {}".format(val1,val2,val1/val2))
```

```
Input 1 for addition
Input 2 for subtraction
Input 3 for multiplication
Input 4 for division
Enter your choice of operation:3
Enter first value:5
Enter second value:3
5 * 3 = 15
```

In [ ]: