Assignment 5 Solutions

1. Write a Python Program to find LCM ?

In [1]:

```
# Python Program to find the L.C.M. of two input number

def compute_lcm(x, y):

    if x > y:
        greater = x
    else:
        greater = y

    while(True):
        if((greater % x == 0) and (greater % y == 0)):
            lcm = greater

            break
        greater += 1

    return lcm

num1 = 54
num2 = 24
num3 = 99
num4 = 69

print("The L.C.M. is", compute_lcm(num1, num2),compute_lcm(num3, num4))
```

```
The L.C.M. is 216 2277
```

2. Write a Python Program to find HCF ?

In [2]:

```
# Python program to find H.C.F of two numbers using while loop

# taking input from users
num1 = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))

i = 1
while(i <= num1 and i <= num2):
    if(num1 % i == 0 and num2 % i == 0):
        hcf = i
    i = i + 1

 print("The H.C.F. of", num1,"and", num2,"is", gcd, "".format(num1, num2,hcf))
```

```
Enter first number: 15
Enter second number: 24
The H.C.F. of 15 and 24 is 3
```

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

In [3]:

```
# Python program to convert decimal into other number systems

dec = int(input("Enter an integer: "))
print("The decimal value of", dec, "is:")
print(bin(dec), "in binary.")
print(oct(dec), "in octal.")
print(hex(dec), "in hexadecimal.")
```

```
Enter an integer: 1212
The decimal value of 1212 is:
0b10010111100 in binary.
0o2274 in octal.
0x4bc in hexadecimal.
```

4. Write a Python Program to Find the ASCII value of a Character ?

In [4]:

```
c = input("Enter a Character: ")
print("The ASCII value of character " + c + " is", ord(c))
```

```
Enter a Character: A
The ASCII value of character A is 65
```

5. Write a Python Program to Make a Simple Calculator with 4 Basic Mathematical operations ?

In [10]:

```
# Python program for simple calculator

# Function to add two numbers
def add(num1, num2):
    return num1 + num2

# Function to subtract two numbers
def subtract(num1, num2):
    return num1 - num2

# Function to multiply two numbers
def multiply(num1, num2):
    return num1 * num2

# Function to divide two numbers
def divide(num1, num2):
    return num1 / num2

print("Please select operation -\n" \
        "1. Add\n" \
        "2. Subtract\n" \
        "3. Multiply\n" \
        "4. Divide\n")


 # Take input from the user
select = int(input("Select operations form 1, 2, 3, 4 :"))

number_1 = int(input("Enter first number: "))
number_2 = int(input("Enter second number: "))

if select == 1:
    print(number_1, "+", number_2, "=",
                    add(number_1, number_2))


elif select == 2:
    print(number_1, "-", number_2, "=",
                    subtract(number_1, number_2))

 elif select == 3:
    print(number_1, "*", number_2, "=",
                multiply(number_1, number_2))

 elif select == 4:
    print(number_1, "/", number_2, "=",
                    divide(number_1, number_2))

else:
    print("Invalid input")
```

```
Please select operation -
1. Add
2. Subtract
3. Multiply
4. Divide

Select operations form 1, 2, 3, 4 :4
```

```
Enter first number: 23
Enter second number: 50
23 / 50 = 0.46
```