

Python Basic Programming Assignment - 5

1. Write a Python Program to Find LCM?

In [1]:

```
1 a = float(input(" Please Enter the First Value a: "))
2 b = float(input(" Please Enter the Second Value b: "))
3
4 if(a > b):
5     maximum = a
6 else:
7     maximum = b
8
9 while(True):
10     if(maximum % a == 0 and maximum % b == 0):
11         print("\n LCM of {0} and {1} = {2}".format(a, b, maximum))
12         break;
13     maximum = maximum + 1
```

Please Enter the First Value a: 12
Please Enter the Second Value b: 25

LCM of 12.0 and 25.0 = 300.0

2. Write a Python Program to Find HCF?

In [2]:

```
1 num1 = int(input("Enter first number: "))
2 num2 = int(input("Enter second number: "))
3
4 i = 1
5 while(i <= num1 and i <= num2):
6     if(num1 % i == 0 and num2 % i == 0):
7         gcd = i
8         i = i + 1
9
10 print("The H.C.F. of", num1,"and", num2,"is", gcd, "".format(num1, num2, gcd))
```

Enter first number: 12
Enter second number: 25
The H.C.F. of 12 and 25 is 1

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

In [4]:

```
1 dec = 344
2
3 print("The decimal value of", dec, "is:")
4 print(bin(dec), "in binary.")
5 print(oct(dec), "in octal.")
6 print(hex(dec), "in hexadecimal.")
```

The decimal value of 344 is:

0b101011000 in binary.

0o530 in octal.

0x158 in hexadecimal.

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

In [6]:

```
1 chr = input("Please Enter Character :- ")
2
3 convert = ord(chr)
4
5 print("The ASCII value of '" + chr + "' is", convert)
```

Please Enter Character :- (

The ASCII value of '(' is 40

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

In [7]:

```
1 def add(P, Q):
2     # This function is used for adding two numbers
3     return P + Q
4 def subtract(P, Q):
5     # This function is used for subtracting two numbers
6     return P - Q
7 def multiply(P, Q):
8     # This function is used for multiplying two numbers
9     return P * Q
10 def divide(P, Q):
11     # This function is used for dividing two numbers
12     return P / Q
13 # Now we will take inputs from the user
14 print ("Please select the operation.")
15 print ("a. Add")
16 print ("b. Subtract")
17 print ("c. Multiply")
18 print ("d. Divide")
19
20 choice = input("Please enter choice (a/ b/ c/ d): ")
21
22 num_1 = int (input ("Please enter the first number: "))
23 num_2 = int (input ("Please enter the second number: "))
24
25 if choice == 'a':
26     print (num_1, " + ", num_2, " = ", add(num_1, num_2))
27
28 elif choice == 'b':
29     print (num_1, " - ", num_2, " = ", subtract(num_1, num_2))
30
31 elif choice == 'c':
32     print (num1, " * ", num2, " = ", multiply(num1, num2))
33 elif choice == 'd':
34     print (num_1, " / ", num_2, " = ", divide(num_1, num_2))
35 else:
36     print ("This is an invalid input")
```

Please select the operation.

- a. Add
- b. Subtract
- c. Multiply
- d. Divide

Please enter choice (a/ b/ c/ d): a

Please enter the first number: 12

Please enter the second number: 24

12 + 24 = 36

In []:

1