# 1 Python Basic Programming Assignment - 5

#### 1.1 1. Write a Python Program to Find LCM?

LCM of 20 and 60 is 60

#### 1.2 2. Write a Python Program to Find HCF?

```
In [4]:
          1 # Python program to find H.C.F of two numbers
          3 # define a function
          4 def compute_hcf(x, y):
          6 # choose the smaller number
          7
                if x > y:
          8
                    smaller = y
          9
               else:
         10
                   smaller = x
               for i in range(1, smaller+1):
         11
                   if((x \% i == 0) and (y \% i == 0)):
         12
                        hcf = i
         13
         14
                 return hcf
         15
         16 \quad \mathsf{num1} = 16
         17 \mid \text{num2} = 64
         18
         19 print("The H.C.F. is", compute_hcf(num1, num2))
         20
```

The H.C.F. is 16

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

The decimal value of 344 is: 0b101011000 in binary. 0o530 in octal. 0x158 in hexadecimal.

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

The ASCII value of 'S' is 83

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

```
In [7]:
          1 # This function adds two numbers
          2 def add(x, y):
          3
                return x + y
          4
          5 # This function subtracts two numbers
          6 def subtract(x, y):
          7
                return x - y
          8
          9 # This function multiplies two numbers
         10 | def multiply(x, y):
         11
                return x * y
         12
         13 # This function divides two numbers
         14 def divide(x, y):
         15
                 return x / y
         16
         17
         18 print("Select operation.")
         19 print("1.Add")
         20 print("2.Subtract")
         21 print("3.Multiply")
         22 print("4.Divide")
         23
         24 while True:
                 # take input from the user
         25
                 choice = input("Enter choice(1/2/3/4): ")
         26
         27
                 # check if choice is one of the four options
         28
         29
                 if choice in ('1', '2', '3', '4'):
         30
                     try:
                         num1 = float(input("Enter first number: "))
         31
                         num2 = float(input("Enter second number: "))
         32
                     except ValueError:
         33
         34
                         print("Invalid input. Please enter a number.")
         35
                         continue
         36
                     if choice == '1':
         37
         38
                         print(num1, "+", num2, "=", add(num1, num2))
         39
                     elif choice == '2':
         40
                         print(num1, "-", num2, "=", subtract(num1, num2))
         41
         42
         43
                     elif choice == '3':
                         print(num1, "*", num2, "=", multiply(num1, num2))
         44
         45
         46
                     elif choice == '4':
         47
                         print(num1, "/", num2, "=", divide(num1, num2))
         48
                     # check if user wants another calculation
         49
         50
                     # break the while loop if answer is no
         51
                     next_calculation = input("Let's do next calculation? (yes/no): ")
         52
                     if next_calculation == "no":
         53
                       break
         54
         55
                     print("Invalid Input")
        Select operation.
        1.Add
        2.Subtract
        Multiply
        4.Divide
        Enter choice (1/2/3/4): 1
```

```
Enter first number: 12
Enter second number: 12
12.0 + 12.0 = 24.0
Let's do next calculation? (yes/no): no
```

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