

## **Programming Assignment-5**

1. Write a Python Program to Find LCM?

```
def compute_lcm(x, y):

    # choose the greater number
    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

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

2. Write a Python Program to Find HCF?

```
# defining a function to calculate HCF
def calculate_hcf(x, y):
    # selecting the smaller number
    if x > y:
        smaller = y
    else:
        smaller = x
    for i in range(1, smaller + 1):
        if((x % i == 0) and (y % i == 0)):
            hcf = i
    return hcf

# taking input from users
num1 = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))
# printing the result for the users
print("The H.C.F. of", num1, "and", num2, "is", calculate_hcf(num1, num2))
```

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

```
dec = 344
print("The decimal value of", dec, "is:")
print(bin(dec), "in binary.")
```

```
octal_num = 0o06374
print(hex(octal_num), "in hexadecimal.")
```

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

```
c = 'g'
print("The ASCII value of '" + c + "' is", ord(c))
```

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

```
def add(x, y):
    return x + y
```

# This function subtracts two numbers

```
def subtract(x, y):
    return x - y
```

# This function multiplies two numbers

```
def multiply(x, y):
    return x * y
```

# This function divides two numbers

```
def divide(x, y):
    return x / y
```

```
print("Select operation.")
print("1.Add")
print("2.Subtract")
print("3.Multiply")
print("4.Divide")
```

```
while True:
```

# take input from the user

```
choice = input("Enter choice(1/2/3/4): ")
```

# check if choice is one of the four options

```
if choice in ('1', '2', '3', '4'):
```

```
    num1 = float(input("Enter first number: "))
```

```
    num2 = float(input("Enter second number: "))
```

```
    if choice == '1':
```

```
        print(num1, "+", num2, "=", add(num1, num2))
```

```
elif choice == '2':  
    print(num1, "-", num2, "=", subtract(num1, num2))  
  
elif choice == '3':  
    print(num1, "*", num2, "=", multiply(num1, num2))  
  
elif choice == '4':  
    print(num1, "/", num2, "=", divide(num1, num2))  
  
# check if user wants another calculation  
# break the while loop if answer is no  
next_calculation = input("Let's do next calculation? (yes/no): ")  
if next_calculation == "no":  
    break  
  
else:  
    print("Invalid Input")
```