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 = 10
num2 = 5

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

2. Write a Python Program to Find HCF?

```
# Function to find HCF the Using Euclidian algorithm
def compute_hcf(x, y):
        while(y):
                x, y = y, x % y
        return x
hcf = compute_hcf(300, 400)
```

```
print("The HCF is", hcf)
```

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

```
def decimal_conversion(decimal):
        print("The decimal value of", decimal, "is:")
        print(bin(decimal), "in binary.")
        print(oct(decimal), "in octal.")
        print(hex(decimal), "in hexadecimal.")

decimal = 10
decimal_conversion(decimal)
```

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

```
# Function to find ASCII value of a character
def find_ascii(char):
        return ord(char)
char = 'A' print("The ASCII value of", char, "is", find_ascii(char))
```

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

```
def calculator():
  while True:
    print("1. Addition")
    print("2. Subtraction")
    print("3. Multiplication")
    print("4. Division")
    print("5. Exit")
    choice = int(input("Enter your choice: "))
    if choice in [1, 2, 3, 4]:
      num1 = float(input("Enter first number: "))
      num2 = float(input("Enter second number: "))
```

```
            if choice == 1:
                print("Result: ", num1 + num2)
            elif choice == 2:
                print("Result: ", num1 - num2)
            elif choice == 3:
                print("Result: ", num1 * num2)
            elif choice == 4:
                print("Result: ", num1 / num2)
        elif choice == 5:
            break
        else:
            print("Invalid Choice!")

calculator()
```