Assignment - 5

1A.

```
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 = 13
num2 = 24
print("The L.C.M. is", compute_lcm(num1, num2))
```

2A.

```
def compute_hcf(x, y):
```

```
# choose 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

num1 = 19
num2 = 17

print("The H.C.F. is", compute_hcf(num1, num2))
```

3A.

```
dec = 344

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

4A.

```
c='p'
```

```
print('ascii value of p: ',ord(c))
```

5A.

```
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")
```