Practice Programs

1. Write a Python Program to Print Hello world.

```
print ('Hello, World!')
```

2. Write a Python Program to add Two Numbers

```
# This program adds two numbers

num1 = 1.5
num2 = 6.3

# Add two numbers
sum = num1 + num2

# Display the sum
print (sum)
```

3. Write a Python Program to add Two Numbers

```
# Store input numbers
num1 = input ('Enter first number: ')
num2 = input ('Enter second number: ')

# Add two numbers
sum = float(num1) + float(num2)

# Display the sum
print ('The sum of {0} and {1} is {2}'.format(num1, num2, sum))
```

4. Write a Python Program to find the Area of the Circle

```
import math

radius = input("Enter the Radius of the Circle: ")
area = math.pi* pow(float(radius), 2)
print ("Area is %.6f" % area)
```

5. Write a Python Program to Swap two Numbers

```
x = int(input("Enter the Value for X: "))
y = int(input("Enter the Value for Y: "))

# Swapping Technique
temp = y
y = x
x = temp

print("X and Y Values after Swapping \n", x, y)
```

```
print("x = ",  x)
print("y = ", y)
```

6. Write a Program to Swap Two Variable without Using 'temp Variable'

```
x = int(input("Enter the Value for X: "))
y = int(input("Enter the Value for Y: "))
x, y = y, x
print("x =", x)
print("y =", y)
```

7. Write a Python Program to find the ASCII Value of a Given Character

```
Character = input('Enter a Character: ')
print("The ASCII value of '" + Character + "' is", ord(Character))
```

8. Write a Python Program to Print a Character from their corresponding ASCII values

```
ASCII_VALUE = int(input("Enter the ASCII VALUE: "))
print("The Character Associated with the ASCII Value '"+str(ASCII_VALUE)+"' is", chr(ASCII_VALUE))
```

9. Write a Python Program to remove a word from a String.

```
print("Enter the String: ")
text = input()

print("Enter a Word to Delete: ")
word = input()

text = text.replace(word, "")

print()
print(text)
```

10. Write a Python Program to illustrates the Set Operations

```
E = {0, 2, 4, 6, 8};
N = {1, 2, 3, 4, 5};
# Union Operation
print ("Union of E and N is",E | N)
# Intersection Operation
print("Intersection of E and N is",E & N)
```

 # SET Difference

```
print("Difference of E and N is",E - N)
```

 # Symmetric SET Difference

```
print("Symmetric difference of E and N is",E^N)
```

11. Write a Python Program to print the calendar of the given Month and Year

```
import calendar

YEAR = int(input("Enter the Year: "))  # year
MONTH = int(input("Enter the Month: "))    # month

# Display the Calendar
print(calendar.month(YEAR, MONTH))
```

Laboratory Exercise	
SL. No	**Program**
1	Write a program to find the largest prime factor of a given integer
2	Write a program to find the height of the ball thrown by a basketball player
3	Write a program to find the Golden ratio
4	Read a paragraph from the user and count the number of words, and frequency of Words appearing, and search for the specific word.
5	Consider a sequence of numbers with some missing values. Write a python program for inserting the missing values, and remove some of the values from the sequence. Also, add a few more values to the existing sequence.
6	Create an Employee 'Employee' Database using dictionaries and perform the insert, search and display operations.
7	Implement Set and Tuple Operations
8	Create a text file called my_file.txt with some content, capitalize the first letter of every word, and print the content of the file in reverse order.