Practial 1 Programs

Program 1- Program to add two strings

```
a=100
```

```
print(a)
```

```
100
```

```
a=a+10
```

```
x=10
print(x)
```

```
10
```

```
# Store input numbers

fname = input()

lname = input('Enter last name: ')


# Display the sum
print("Your Name is "+fname+" "+lname)
```

```
6777
Enter last name: sharma
Your Name is 6777 sharma
```

```
a,b,c=1,2.3,"ddfdf"
print(a,"\n",b,'\n',c)
print(type(x))
y=20
print(y)
x=2.3
print(x)
print(type(x))
x="sdsdsd"
print(id(x))
print(type(x))
```

```
1
 2.3
 ddfdf
<class 'str'>
20
2.3
<class 'float'>
140021285436400
<class 'str'>
```

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

```
The sum of 1.5 and 6.3 is 7.8
The sum of 1.5 and 1.5 is 1.5
The sum of 6.3 and 1.5 is 6.3
```

Program 3- Program to Add Two Numbers With User Input

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

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

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

```
Enter first number: 10
Enter second number: 20
The addtion is 30
the addition of 10 and 20is30
The sum of 20 and 10 is 30
```

Program 4- Python Program to calculate the square root

```
# Note: change this value for a different result
num = 4

# To take the input from the user
#num = float(input('Enter a number: '))

num_sqrt = num ** 0.5
print('The square root of %0.3f is %0.3f'%(num ,num_sqrt))
```

```
The square root of 4.000 is 2.000
```

Program 5-Solve the quadratic equation ax**2 + bx + c = 0

```
# import complex math module
import cmath

a = 1
b = 5
c = 6

# calculate the discriminant
d = (b**2) - (4*a*c)

# find two solutions
sol1 = (-b-cmath.sqrt(d))/(2*a)
sol2 = (-b+cmath.sqrt(d))/(2*a)

print('The solution are {0} and {1}'.format(sol1,sol2))
print("Solution1",sol1)
print("Solution2"+str(sol2))
```

```
The solution are (-3+0j) and (-2+0j)
```

Program 6 Python Program to find the area of Circle

```
rad =  float(input("enter rad"))

# calculate the area
area = 3.14*float(rad)*float(rad)
print('The area of the triangle is %0.2f' %area)
```

```
enter rad23
The area of the triangle is 1661.06
```

Practical1 Assignments

1. Python Program to Make a Simple Calculator
2. Python program to convert Celsius to Fahrenheit
3. Python Program for simple interest
4. Python Program for compound interest
5. Program to fecth and display Student data (Roll,Name, Marks, Address, Grade,Gender,Mobileno)

Python Program to Make a Simple Calculator

Python Program to Make a Simple Calculator

```
equation=input("enter an equation")
print(eval(equation))
```

```
enter an equation12+23*3/12-9
8.75
```

Double-click (or enter) to edit

Python program to convert Celsius to Fahrenheit

```
celsius=int(input("enter the temprature in celsius"))
fahrenheit=(celsius*1.8)+32
print(fahrenheit)
```

```
enter the temprature in celsius15
59.0
```

Python Program for simple interest

```
p=int(input("enter the principal"))
t=int(input("enter the time in years"))
r=int(input("enter the rate of interest"))
si = (p * t * r)/100
print(si)
```

```
enter the principal2000
enter the time in years3
enter the rate of interest5
300.0
```

Python Program for compound interest

```
principle=int(input("enter the principle"))
rate=int(input("enter the rate"))
time=int(input("enter the time"))
amount = principle * (pow((1 + rate / 100), time))
compound_interest = amount - principle
print("Compound interest is", compound_interest)
```

```
enter the principle1000
enter the rate12
enter the time3
Compound interest is 404.92800000000034
```

Program to fecth and display Student data (Roll,Name, Marks, Address, Grade,Gender,Mobileno)

```
Roll=input("enter the roll")
name=input("enter the Name")
marks=input("enter the marks")
add=input("enter the addr")
grade=input("enter the grade")
gender=input("enter the gender")
mobile=input("enter the moble number")

print(Roll)
print(name)
```

```
print(marks)
print(add)
print(grade)
print(gender)
print(mobile)
```

```
enter the roll12
enter the Nametabish
enter the marks10
enter the addraurangabad
enter the gradea
enter the gendermale
enter the moble number913001231
12
tabish
10
aurangabad
a
male
913001231
```