In [1]:

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

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

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

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

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

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

num1 = int(input("Enter first number: "))
num2 = int(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))
else:
   print("Invalid input")
```

```
Select operation.
1.Add
2.Subtract
3.Multiply
4.Divide
Enter choice(1/2/3/4):1
Enter first number: 4
Enter second number: 5
4 + 5 = 9
```

In [3]:
```
princ_amount = float(input(" Please Enter the Principal Amount : "))
rate_of_int = float(input(" Please Enter the Rate Of Interest   : "))
time_period = float(input(" Please Enter Time period in Years   : "))

simple_interest = (princ_amount * rate_of_int * time_period) / 100

print("\nSimple Interest for Principal Amount {0} = {1}".format(princ_a
mount, simple_interest))
```

```
 Please Enter the Principal Amount : 10
 Please Enter the Rate Of Interest   : 5
 Please Enter Time period in Years   : 2

Simple Interest for Principal Amount 10.0 = 1.0
```

In [6]:
```
PI = 3.14
radius = float(input(' Please Enter the radius of a circle: '))
area = PI * radius * radius

print(" Area Of a Circle = %.2f" %area)
```

```
 Please Enter the radius of a circle: 3
 Area Of a Circle = 28.26
```

In [7]:
```
 a = float(input('Enter first side: '))
 b = float(input('Enter second side: '))
 c = float(input('Enter third side: '))
```

```
s = (a + b + c) / 2


area = (s*(s-a)*(s-b)*(s-c)) ** 0.5
print('The area of the triangle is %0.2f' %area)
```

```
Enter first side: 3
Enter second side: 3
Enter third side: 4
The area of the triangle is 4.47
```

In [8]:
```
celsius = float(input("Enter temperature in celsius: "))
fahrenheit = (celsius * 9/5) + 32
print('%.2f Celsius is: %0.2f Fahrenheit' %(celsius, fahrenheit))
```

```
Enter temperature in celsius: 77
77.00 Celsius is: 170.60 Fahrenheit
```

In [9]:
```
width = float(input('Please Enter the Width of a Rectangle: '))
height = float(input('Please Enter the Height of a Rectangle: '))

Area = width * height


print("\n Area of a Rectangle is: %.2f" %Area)
```

```
Please Enter the Width of a Rectangle: 3
Please Enter the Height of a Rectangle: 4

 Area of a Rectangle is: 12.00
```

In [20]:
```
s=int(input("Enter side length of square: "));
Perimeter_square=s*4
print("Perimeter of the square="+str(Perimeter_square))
```

```
Enter side length of square: 2
Perimeter of the square=8
```

In [22]:
```
PI = 3.14
radius = float(input(' Please Enter the radius of a circle: '))

circumference = 2 * PI * radius

print(" Circumference Of a Circle = %.2f" %circumference)
```

```
 Please Enter the radius of a circle: 2
 Circumference Of a Circle = 12.56
```

In [23]:
```
# Python program to swap two variables

num1 = input('Enter First Number: ')
num2 = input('Enter Second Number: ')

print("Value of num1 before swapping: ", num1)
print("Value of num2 before swapping: ", num2)

temp = num1
num1 = num2
num2 = temp

print("Value of num1 after swapping: ", num1)
print("Value of num2 after swapping: ", num2)
```

```
Enter First Number: 3
Enter Second Number: 5
Value of num1 before swapping:  3
Value of num2 before swapping:  5
Value of num1 after swapping:  5
Value of num2 after swapping:  3
```

In [ ]: