

Assignment - 1

(Module - 1)

1. a. Addition of two numbers:-

Code: `a = int(input("Enter a:"))`

Enter a: 2

`b = int(input("Enter b:"))`

Enter b: 3

`Add = a + b`

`print(a + b)`

b. Subtraction:-

`a = int(input("Enter a:"))`

Enter a: 5

`b = int(input("Enter b:"))`

Enter b: 3

`Sub = a - b`

`print(sub)`

c. Multiplication:

`a = int(input("Enter a:"))`

Enter a: 5

`b = int(input("Enter b:"))`

Enter b: 5

`Mul = a * b`

`print(Mul)`

d. Division:

`a = int(input("Enter a:"))`

Enter a: 10

`b = int(input("Enter b:"))`

Enter b: 5

`div = a / b`

`print(div)`

Exponent: (**))

number = int(input("Enter positive number:"))

exponent = int(input("Enter Exponent Value:"))

Result = number ** exponent

print(Result)

floor division (//):

a = 10

b = 3

x = a/b

print(x)

y = a // b

print(y)

Area of circle:

P = 3.14

radius = float(input("Enter the radius of circle:"))

area = P * radius * radius

print(area)

Area of Triangle:

Base = int(input("Enter a number:"))

Enter Base: 6

height = int(input("Enter a number:"))

Enter height: 8

area = (Base * height) / 2

print(area)

Circumference of circle:

P = 3.14

radius = float(input("Enter the radius of circle:"))

circumference = 2 * P * radius

print(circumference)

Area of Rectangle:

```
l = float(input('Enter the length of rectangle'))  
w = float(input('Enter the width of rectangle'))  
area = l * w  
print(area)
```

perimeter of Square:

```
a = int(input('Enter a number'))  
a = 5  
perimeter = 4 * a  
print(perimeter)
```

Celsius to Fahrenheit

```
Celsius = float(input('Enter temperature in Celsius:'))  
Enter temperature in Celsius: 37  
Fahrenheit = (Celsius * 1.8) + 32  
print(Fahrenheit)
```

37°C = 98.6°F

Swapping - two numbers:

```
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)
```

Modulus:

```
a = int(input("Enter a:"))
```

```
input a: 15
```

```
b = int(input("Enter b:"))
```

```
input b: 6
```

Simple interest:

```
p = float(input("enter principle amount"))
```

```
t = float(input("enter time period"))
```

```
r = float(input("enter rate of interest"))
```

```
SI = (p*t*r)/100
```

```
print("Simple interest is", float(SI))
```

Modulus:

```
a = int(input("Enter a:"))
```

```
Enter a: 4
```

```
b = int(input("Enter b:"))
```

```
Enter b: 2
```

```
res = a % b
```

```
print(a % b)
```