

Data Types:

It is a predefined component that specifies the category or type of data.

(or)

It is a built-in component used to define the type of data.

Python data types:

int, float, complex, str, bool

Special data types (Data structure):

list, tuple, set, dict

ex: a=7

type(a)

o/p: int

ex: name= "thanu"

type(name)

o/p: str

Input function:

input () function in python is used to take input from the user as a string.

Output function:

The output function in Python is typically the print() function, which is used to display information (such as text, variables, or results) on the screen or console.

ex: a=int(input())

print(a)

o/p: 4

Program: Take 2 float numbers from user.

```
a=float(input("enter the number"))
```

```
b=float(input("enter the number"))
```

```
print(a+b)
```

```
print(a,"+",b,"=",a+b)
```

```
print("sum of",a,"+",b,"=",a+b)
```

#.format method

```
print("sum of {} + {} = {}".format(a,b,a+b))
```

#fstring method

```
print(f'sum of {a} + {b} = {a+b}')
```

o/p: enter the number 2

enter the number 3

5.0

2.0 + 3.0 = 5.0

sum of 2.0 + 3.0 = 5.0

sum of 2.0 + 3.0 = 5.0

sum of 2.0 + 3.0 = 5.0

Program: Write a program to calculate the area of triangle and circle with given input.

```
b=float(input())
```

```
h=float(input())
```

```
r=float(input())
```

```
aot=0.5*b*h
```

```
aoc=3.142*r*r
```

```
print(f"The area of triangle is {aot}\nThe area of circle is {aoc}")
```

```
print(f"The area of triangle is {0.5*b*h}\nThe area of circle is {3.142*r*r}")
```

o/p: 2

3

4

The area of triangle is 3.0

The area of circle is 50.272

The area of triangle is 3.0

The area of circle is 50.272