

Chapter – 22 Input and Print functions

Lesson Objective

- Input function
- Print function

Skills to be attained : Knowing the variables, values and data types used in a program

Tools / Websites / Resources :

1. <https://www.onlinegdb.com/>
2. gedit text editor in Hitech lab

Teacher Led Instruction

In Python, we use the input() function to collect user input and the print() function to display output.

Input function :

Python uses Input () function to collect input from keyboard. This function takes input from the keyboard as a string.

The general form of input() is

variable = input (“string”)

Example

y=input(“Enter your name”) (to give **a text** as input)

m=int(input (“Enter a number : “) (to give **a whole number** as input)

n=float(input(“ Enter your height :”) (to give **a fractional number** as input)

Print function :

In Python, the print() function is used to print a message on a screen.

The general format of print function is

print (“ String “ / variable / constant / expression)

Example :

```
print(“Hello Students”)
```

```
print (x)
```

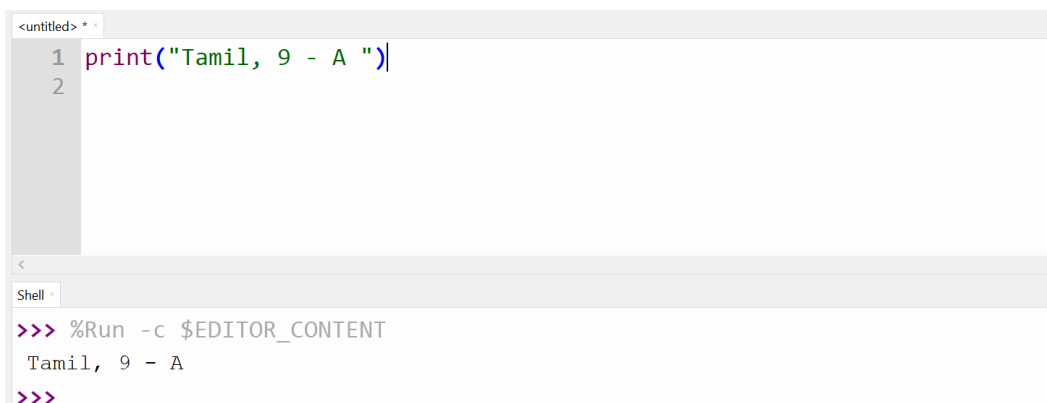
```
print(5)
```

```
print(5+10)
```

```
print(“ sum = “, a+b)
```

Student Activity :

Activity 1: Display your name and class and download the program to your system.



The screenshot shows the Thonny IDE interface. The top pane displays a Python script with two lines of code: `1 print("Tamil, 9 - A ")` and `2`. The bottom pane, labeled 'Shell', shows the execution output: `>>> %Run -c $EDITOR_CONTENT` followed by `Tamil, 9 - A` and `>>>`.

Example1 : Add two numbers



The screenshot shows the Thonny IDE interface. The top pane displays a Python script with four lines of code: `1 x,y=10,20`, `2 z=x+y`, `3 print("Sum = ",z)`, and `4`. The bottom pane, labeled 'Shell', shows the execution output: `>>> %Run -c $EDITOR_CONTENT` followed by `Sum = 30` and `>>>`.

Example2 : Read and display your name and age (use gedit / offline compiler)

```
<untitled> * *
1 name=input("Enter your name = ")
2 age=int(input("Enter your age = "))
3 print('\n'*3)# for 3 blank lines
4 print("Student Name=",name)
5 print("Student Age=",age)
6

Shell <
>>> %Run -c $EDITOR_CONTENT
Enter your name = Tamil
Enter your age = 13

Student Name= Tamil
Student Age= 13
>>> |
```

Activity 2: Display your and address as shown below

```
Thonny - <untitled> @ 5:11
File Edit View Run Tools Help

<untitled> * *
1 print("*****")
2 print("    Tamil Kumaran A")
3 print("    123,Bharathiar St.")
4 print("    Kanadasan Nagar")
5 print("    Salem")
6 print("*****")
7

Shell <
>>> %Run -c $EDITOR_CONTENT
*****
    Tamil Kumaran A
    123,Bharathiar St.
    Kanadasan Nagar
    Salem
*****|
>>>
```

Activity 3: Write a simple python program to add three numbers.

```
Thonny - <untitled> @ 5:22
File Edit View Run Tools Help

<untitled> * x
1 x=int(input("Enter first number : "))
2 y=int(input("Enter second number : "))
3 z=int(input("Enter third number : "))
4 sum=x+y+z
5 print("Total = ",sum)
6

Shell x
>>> %Run -c $EDITOR_CONTENT
Enter first number : 2
Enter second number : 3
Enter third number : 4
Total = 9
>>> |
```

Activity 4 : Write a python program to find the area and perimeter of a rectangle.

```
Thonny - <untitled> @ 5:1
File Edit View Run Tools Help

<untitled> * x
1 l=int(input("Length : "))
2 b=int(input("breath : "))
3 area = l*b
4 print("Area = ",area)
5

Shell x
>>> %Run -c $EDITOR_CONTENT
Length : 5
breath : 10
Area = 50
>>> |
```

Conclusion : input() and print() functions will be clearly explained and the given program should be practiced in onlinegdb compiler or offline gedit text editor.