Function

Mohammad Tasin (Tasin Coder)

Agenda

➢ What is Function?

➢ Function Definition

➢ Function call

➢ Ways to define a Function

What is Function?

- Function is a block of code, which only runs it is called.

- Function has some name for identification.

- Function is a way to implement modularization

- Modularization is splitting up of a bigger task into several smaller sub-tasks to reduce the complexity of a problem.

Function Definition

```python
# def is a keyword in the python

def Function_Name(Arguments):
    code
    code
```

Function call

```python
def Print_Name():
    print("TasiNCoder")



Print_Name()

Print_Name()
```

- ▪ **Once function is defined, it can be called any number of times.**

Ways to define a Function

- **Takes Nothing, Returns Nothing**

- **Take Something, Returns Nothing**

- **Takes Nothing, Return Something**

- **Take Something, Return Something**

Takes Nothing, Returns Nothing

```python
def Add():

    a = int(input("Enter Two Numbers : "))

    b = int(input())

    print(f"Sum is {a+b}");


Add()
```

Take Something, Returns Nothing

```python
def Add(a, b):

    print(f"Sum is {a+b}");


Add(20,30)
```

Takes Nothing, Return Something

- **return is a keyword in the python**

```python
def Add():

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

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

    return (a+b)


print("Sum is", Add())
```

Take Something, Return Something

```python
def Add(a, b):

    return (a + b)


a = int(input("Enter a number : "))
b = int(input("Enter a number : "))
print("Sum is", Add(a, b))
```