```
0.000
In [ ]:
          2 Functions:
            1. Types of functions
            2.Creating Function
            a)Without parameter
            b)with parameter
            c)with return keyword
         10
         11 3.Docstring
         12
         13 4. Functional arguments
         14 a)Positional arguments
         15 b)default arguments
         16 c)variable -length arguments
         17
```

1. Types of functions

1.Built-in function

2.user defined function

2. Creating function

Addition of two numbers: 35

```
In [3]: 1 def add(a,b):
    print("Adiition of two numbers: ",a+b)
3    4 add(10,19)

Adiition of two numbers: 29
```

```
a)without parameter
b)with parameter
c)with return keyword
```

```
#difference between parameter and argument
In [4]:
          2
             #Parameters
          4
            Parameters are defined by the names that appear in a function definition.
            Parameters define what kind of arguments a function can accept.
          7 Therefore, according to the above example of a Parameterized Function, the following is a parameter i.e.
            # Function Definition
            def sample(str):
         11
         12 #Arguments
         13
         14 Arguments are the values actually passed to a function when calling it.
         15 Therefore, according to the above example of a Parameterized Function, the following are the arguments
         16 i.e Tesla, Audi, BMW and Toyota -
         17
            # Function calls
         19 sample("Tesla")
         20 sample("Audi")
         21 sample("BMW")
         22 sample("Toyota")
         23
             0.000
         24
         25
            #without parameter / zero parameter function
         27
         28
             def intro():
                 print("Hello Trupti Welcome to the EduTECH")
         29
         30
         31 intro()
         32
```

Hello Trupti Welcome to the EduTECH

Hello Priti welcome to EduTECH

```
In [8]: 1 def intro3(name ,c_name):
    print(f"Hello {name} are you looking for {c_name}?")
3 intro3("Trupti","Data Analysis")
```

Hello Trupti are you looking for Data Analysis?

Addition is: 19

4.Function Arguments

```
    a) Positional Argument
    b)keyword argument
    c) Default argument
    d)Variable length argument
```

```
1 #Positional Argument
In [11]:
           3 def display(name,s_name):
                 print("Name is: ",name)
                 print("Surname is: ",s name)
             display("Ajay", "Tak")
         Name is: Ajay
         Surname is: Tak
          1 display("Vishal")
In [12]:
         TypeError
                                                   Traceback (most recent call last)
         Cell In[12], line 1
         ---> 1 display("Vishal")
         TypeError: display() missing 1 required positional argument: 's name'
           1 #Keyword argument
In [13]:
            display(s_name = "Mane", name= "Trupti")
         Name is: Trupti
         Surname is: Mane
In [14]:
           1 #default Argument
            def show(name,city="Pune"):
                 print("Name is: ",name)
                 print("City is: ",city)
           5
           7 show("Trupti")
             show("Priyanka", "Mumbai")
         Name is: Trupti
         City is: Pune
         Name is: Priyanka
         City is: Mumbai
```