Variable Differention

```
a=20
In [1]:
        b = 30
        print("Additions is:",a+b,"Data Science ")
        Additions is: 50 Data Science
In [3]: print("the value of: ",a,"the value of: ",b,"Additon:",a+b)
        the value of: 20 the value of: 30 Additon: 50
        Working with input function
In [9]: a=int(input("enter the value a: "))
        b=int(input("enter the value b: "))
        print(a+b)
        enter the value a: 4
        enter the value b: 4
In [3]: a=float(input("enter the value a: "))
        b=float(input("enter the value b: "))
        print(a+b)
        enter the value a: 3.4
        enter the value b: 9.7
        13.1
In [4]: | a=float(input("enter the value a: "))
        b=float(input("enter the value b: "))
        print(a+b)
        enter the value a: 4
        enter the value b: 6
        10.0
```

Working with String

```
In [7]: | ab=("Water is important")
        print(ab[0])
        W
In [8]: |print(ab[0:3])
```

Wat

```
In [12]: | ab=("Water is important")
         print(ab[5:3])
In [13]: | ab=("Water is important")
         print(ab[3:5])
         er
In [18]: ab=("important")
         print(ab[-5:-1])
         rtan
In [20]: ab=("important")
         print(ab[-3:-1])
         an
         a="Data Science "
In [23]:
         ab=a[-8:13]
         print(ab)
         Science
In [24]: | a="Data Science "
         ab=a[8:-3]
         print(ab)
         en
         For Loop
In [25]: for t in range(5):
             print("Data Science")
         Data Science
         Data Science
         Data Science
         Data Science
         Data Science
In [26]: | for x in range(3):
             a=20
             b=30
             print(a+b)
         50
         50
```

50

```
In [30]: a="pune"
         for x in a:
             print("Data")
         Data
         Data
         Data
         Data
In [33]: for x in range(2,5):
             print("machine: ",x)
         machine: 2
         machine: 3
         machine: 4
In [34]: for x in range(5):
             print("machine:")
         machine:
         machine:
         machine:
         machine:
         machine:
In [35]: for x in range(5,7):
             print("machine:",x)
         machine: 5
         machine: 6
In [36]: | for x in "Datax":
             print("mouse is important",x)
         mouse is important D
         mouse is important a
         mouse is important t
         mouse is important a
         mouse is important x
In [37]: for x in range(5,7):
             print("machine")
         machine
         machine
```

```
In [38]: | ab=["Pune","Nashik","Mumbai"]
         for x in ab:
             print("machine learning")
         machine learning
         machine learning
         machine learning
In [39]: | ab=["Pune", "Nashik", "Mumbai"]
         for x in ab:
             for y in x:
                 print("machine learning","I am:",x,y)
         machine learning I am: Pune P
         machine learning I am: Pune u
         machine learning I am: Pune n
         machine learning I am: Pune e
         machine learning I am: Nashik N
         machine learning I am: Nashik a
         machine learning I am: Nashik s
         machine learning I am: Nashik h
         machine learning I am: Nashik i
         machine learning I am: Nashik k
         machine learning I am: Mumbai M
         machine learning I am: Mumbai u
         machine learning I am: Mumbai m
         machine learning I am: Mumbai b
         machine learning I am: Mumbai a
         machine learning I am: Mumbai i
In [40]: for x in range(3):
             name=input("enter the name: ")
             for x1 in name:
                  print("Data Science ")
         enter the name: priya
         Data Science
         Data Science
         Data Science
         Data Science
         Data Science
         enter the name: varsha
         Data Science
         Data Science
         Data Science
         Data Science
         Data Science
         Data Science
         enter the name: jitu
         Data Science
         Data Science
         Data Science
         Data Science
```

```
In [45]: for x in "20":
    print("Data")
```

Data Data
