Average of three numbers

In [5]:
```
a=10
b=20
c=30
d=(a+b+c)/3
print(d)
print(type(a))
print(type(b))
print(type(c))
print(type(d))
```

```
20.0
<class 'int'>
<class 'int'>
<class 'int'>
<class 'float'>
```

Multiplication of three numbers(STATIC)

In [10]:
```
a=5
b=10
c=a*b
print(c)
print(type(a))
print(type(b))
print(type(c))
print(type(d))
```

```
50
<class 'int'>
<class 'int'>
<class 'int'>
<class 'float'>
```

Addition of three numbers (Dynamic)

In [14]:
```
a=int(input("enther the variable"))
b=int(input("enter the variable"))
c=a+b
print(c)
print(type(b))
```

```
enther the variable5
enter the variable6
11
<class 'int'>
```

Multiplication of three numbers (dynamic)

In [17]:
```
a=int(input("enter the varible"))
b=int(input("enter the variable"))
c=int(input("enter the variable"))
d=a*b*c
print(d)
print(type(d))
```

```
enter the varible9
enter the variable9
enter the variable9
729
<class 'int'>
```

Type Conversions

Convert int to float

In [20]:
```
a=10
print(type(a))
b=float(a)
print(b)
print(type(b))
```

```
<class 'int'>
10.0
<class 'float'>
```

Convert float to int

In [22]:
```
a=100.23
print(type(a))
b=int(a)
print(b)
print(type(b))
```

```
<class 'float'>
100
<class 'int'>
```

Convert int to string

In [30]:
```
a=45
print(a)
print(type(a))
b=str(a)
print(b)
print(type(b))
```

```
45
<class 'int'>
45
<class 'str'>
```

convert float to string

In [29]:
```
a=45.5
print(a)
print(type(a))
b=str(a)
print(b)
print(type(b))
```

```
45.5
<class 'float'>
45.5
<class 'str'>
```

convert int to boolean

In [32]:
```
a=10
print(a)
print(type(a))
b=bool(a)
print(b)
print(type(b))
```

```
10
<class 'int'>
True
<class 'bool'>
```

Convert String to int

In [37]:
```
a="45"
print(a)
print(type(a))
b=int(a)
print(b)
print(type(b))
```

```
45
<class 'str'>
45
<class 'int'>
```

Convert String to boolean

In [40]:
```
a="45"
print(a)
print(type(a))
b=bool(a)
print(b)
print(type(b))
```

```
45
<class 'str'>
True
<class 'bool'>
```

Convert String to float

In [41]:
```
a="45"
print(a)
print(type(a))
b=float(a)
print(b)
print(type(b))
```

```
45
<class 'str'>
45.0
<class 'float'>
```

Boolean Example

In [49]:
```
a=2
b=10
c=a>b
b=float(c)
print(c)
```

```
False
```

Convert boolean to int

In [53]:
```
a=45
b=50
c=a>b
print(c)
print(type(c))
d=int(bool(c))
print(d)
print(type(d))
```

```
False
<class 'bool'>
0
<class 'int'>
```

Convert boolean to float

In [54]:
```
a=10
b=5
c=a>b
print(c)
print(type(c))
d=float(bool(c))
print(d)
print(type(d))
```

```
True
<class 'bool'>
1.0
<class 'float'>
```

Convert boolean to string

In [55]:
```
a=10
b=5
c=a>b
print(c)
print(type(c))
d=str(bool(c))
print(d)
print(type(d))
```

```
True
<class 'bool'>
True
<class 'str'>
```

In [8]:
```
f=open('Desktop//ganesh.txt','r')
print(f.read())
```

```
Now the file has more content!
```

In [7]:
```
f = open("Desktop//ganesh.txt", "w")
f.write("Now the file has more content!")
f.close()
f = open("Desktop//ganesh.txt", "r")
print(f.read())
```

```
Now the file has more content!
```

In [9]:
```
f=open('myfile1.txt','x')
```

In [14]:
```
f=open('myfile1.txt','w')
f.write('Now I opened this file by writing a code instead of not manually.')
f.close()
f=open('myfile1.txt','r')
print(f.read())
```

```
Now I opened this file by writing a code instead of not manually.
```

In [12]:
```
import pandas
```

In [16]:
```
mydataset = {
  'cars': ["Kia","Benz","Toyota"],
  'orders':[9,11,10]
}
hell=pandas.DataFrame(mydataset)
print(hell)
```

```
     cars  orders
0     Kia       9
1    Benz      11
2  Toyota      10
```

In [24]:
```
import pandas
dataset1={
    'Veg items':['Veg Friedrice','Veg Biryani','Panner'],
    'Prices':[100,120,150]
}
x=pandas.DataFrame(dataset1)
print(x)
dataset2={
    'Non-Veg items':['Egg Friedrice','Chicken biryani','Chicken 65'],
    'prices':[120,150,180]
}
y=pandas.DataFrame(dataset2)
print(y,end='/n')
```

```
       Veg items  Prices
0  Veg Friedrice     100
1    Veg Biryani     120
2         Panner     150
     Non-Veg items  prices
0    Egg Friedrice     120
1  Chicken biryani     150
2       Chicken 65     180/n
```

In [30]:
```
import pandas
a=pandas.read_csv('Desktop//Book1.csv')
print(a.to_string())
```

```
                   Menu  Prices
0         Veg Manchuria     100
1           Veg Biryani     120
2  Panner Butter Masala     250
```

In [1]:
```
f=open('myfile1.txt','w')
f.write('Now I opened this file by writing a code instead of not manually.')
f.close()
f=open('myfile1.txt','r')
print(f.read())
```

```
Now I opened this file by writing a code instead of not manually.
```

In [22]:
```
import pandas as dk
Family_members={
    'Name':['P.Sitaramu','P.Lalita','P.Ganesh','P.Yogesh'],
    'Age':[45,39,19,13],
    'Gender':['Male','Female','Male','Male'],
    'Contact':[9949608625,9676057467,8688123386,7075697277],
}
x=dk.DataFrame(Family_members)
print(x)
```

```
         Name  Age  Gender     Contact
0  P.Sitaramu   45    Male  9949608625
1    P.Lalita   39  Female  9676057467
2    P.Ganesh   19    Male  8688123386
3    P.Yogesh   13    Male  7075697277
```

In [31]:
```
import pandas as pd
a=[8.2,6.3,8.1,8.4,1.8,2.9,3.5,3.7,8.8,6.6]
my=pd.Series(a)
print(my)
```

```
0    8.2
1    6.3
2    8.1
3    8.4
4    1.8
5    2.9
6    3.5
7    3.7
8    8.8
9    6.6
dtype: float64
```

In [32]:
```
import pandas as pd
a = [1, 7, 2]
myvar = pd.Series(a, index = ["x", "y", "z"])
print(myvar)
```

```
x    1
y    7
z    2
dtype: int64
```

In [35]:
```
import pandas as pd
a=[8.2,6.3,8.1,8.4,1.8,2.9,3.5,3.7,8.8,6.6]
my=pd.Series(a)
print(my[3])
```

```
8.4
```

In [51]:
```
import pandas as dk
Family_members={
    'Name':['P.Sitaramu','P.Lalita','P.Ganesh','P.Yogesh'],
    'Age':[45,39,19,13],
    'Gender':['Male','Female','Male','Male'],
    'Contact':[9949608625,9676057467,8688123386,7075697277],
}
x=dk.DataFrame(Family_members)
print(x)
print(x.loc[0])
print(x.loc[0:2])
print(x.loc[[0,2]])
```

```
         Name  Age  Gender     Contact
0  P.Sitaramu   45    Male  9949608625
1    P.Lalita   39  Female  9676057467
2    P.Ganesh   19    Male  8688123386
3    P.Yogesh   13    Male  7075697277
Name       P.Sitaramu
Age                45
Gender           Male
Contact    9949608625
Name: 0, dtype: object
         Name  Age  Gender     Contact
0  P.Sitaramu   45    Male  9949608625
1    P.Lalita   39  Female  9676057467
2    P.Ganesh   19    Male  8688123386
         Name  Age Gender     Contact
0  P.Sitaramu   45   Male  9949608625
2    P.Ganesh   19   Male  8688123386
```

In [52]:
```
import pandas as pd
calories = {"day1": 420, "day2": 380, "day3": 390}
myvar = pd.Series(calories)
print(myvar)
```

```
day1    420
day2    380
day3    390
dtype: int64
```

In [53]:
```
import pandas as pd
calories = {"day1": 420, "day2": 380, "day3": 390}
myvar = pd.Series(calories, index = ["day1", "day2"])
print(myvar)
```

```
day1    420
day2    380
dtype: int64
```

In [1]:
```
import pandas as pd
data = {
  "Duration":{
    "0":60,
    "1":60,
    "2":60,
    "3":45,
    "4":45,
    "5":60
  },
  "Pulse":{
    "0":110,
    "1":117,
    "2":103,
    "3":109,
    "4":117,
    "5":102
  },
  "Maxpulse":{
    "0":130,
    "1":145,
    "2":135,
    "3":175,
    "4":148,
    "5":127
  },
  "Calories":{
    "0":409,
    "1":479,
    "2":340,
    "3":282,
    "4":406,
    "5":300
  }
}
df = pd.DataFrame(data)
print(df)
```

```
   Duration  Pulse  Maxpulse  Calories
0        60    110       130       409
1        60    117       145       479
2        60    103       135       340
3        45    109       175       282
4        45    117       148       406
5        60    102       127       300
```

In [20]:
```
import pandas as d
df = d.read_csv('D://Book2.csv')
print(df)
new_df = df.dropna()
print(new_df.to_string())
```

```
      Name   Age  Gender
0   Ganesh   NaN    Male
1   Yogesh  13.0    Male
2     Modi  71.0    Male
3  Deepika  36.0  Female
      Name   Age  Gender
1   Yogesh  13.0    Male
2     Modi  71.0    Male
3  Deepika  36.0  Female
```

In [8]:
```
import pandas as pd
df = pd.read_csv('D://Book2.csv')
print(df)
df.dropna(inplace = True)
print(df.to_string())
```

```
              Name   Age  Gender
0  Pillala Ganesh   NaN    Male
1  Pillala Yogesh  13.0    Male
2   Narendra Modi  71.0    Male
3   Deepika singh  36.0  Female
              Name   Age  Gender
1  Pillala Yogesh  13.0    Male
2   Narendra Modi  71.0    Male
3   Deepika singh  36.0  Female
```

In [19]:
```
import pandas as pd
df = pd.read_csv('D://Book2.csv')
print(df)
df.fillna(19, inplace=True)
print(df)
```

```
      Name   Age  Gender
0   Ganesh   NaN    Male
1   Yogesh  13.0    Male
2     Modi  71.0    Male
3  Deepika  36.0  Female
      Name   Age  Gender
0   Ganesh  19.0    Male
1   Yogesh  13.0    Male
2     Modi  71.0    Male
3  Deepika  36.0  Female
```

In [18]:
```
import pandas as pd
df = pd.read_csv('D://Book2.csv')
print(df)
df["Age"].fillna(19, inplace = True)
print(df)
```

```
      Name   Age  Gender
0   Ganesh   NaN    Male
1   Yogesh  13.0    Male
2     Modi  71.0    Male
3  Deepika  36.0  Female
      Name   Age  Gender
0   Ganesh  19.0    Male
1   Yogesh  13.0    Male
2     Modi  71.0    Male
3  Deepika  36.0  Female
```

In [21]:
```
import pandas
df_new=pd.read_csv('D://Book2.csv')
G=pd.ExcelWriter('D://Book3.xlsx')
df_new.to_excel(G, index=False)
G.save
print(df)
```

```
      Name   Age  Gender
0   Ganesh   NaN    Male
1   Yogesh  13.0    Male
2     Modi  71.0    Male
3  Deepika  36.0  Female
```

In [ ]:
```

```