python_jav

how to use jupyter notebook

Basics of python

- *my_first_program* **2_my_second_program**

print(3+8) print("python_jav")

2- operators **2- operators**

In [11]:
```
print(3+5)
# print(4+8*6-3/3)
# print(3*9-2//3)
# 2**3
# print(5**8)
print("(2**3)3/3+3*4-1")
```

```
8
(2**3)3/3+3*4-1
```

3- strings

In [ ]:
```
# print('test for single qoutes')
# print(''' Test for tripple qoutes''')
print("what's up")
Rhe shortcut key to comment is **ctrl+/**
```

4- comments

In [ ]:
```
# print("How r you?")
print("am learning python")
```

5- Variables

In [ ]:
```
# variables: objects containing specific values
del x= 5 numeric or integer variable
print(x)
y= "am learning python" string variable
print(y)
print(x)
# Types of variables
type(x)
print(type(x))
print(type(y))
# Rules to assign a variable
# 1: variables should contain letters, numbers or underscores
# 2: Do not start with numbers like 2y
# 3: spaces are not allowed
# 4: do not use keywords like mean or median
# 5: name must not be long and complicated
# 6: case sensitivity (lower case better)
fruit_basket= "Mangoes"
print(fruit_basket)
```

6- Input_variables

In [ ]:
```
fruit_basket="mangoes"
fruit_basket="mangoes"
print(fruit_basket)
#input functions
fruit_basket=input("nme your fav fruit")
print(fruit_basket)
#input function of 2nd stage
name=input("your name?")
greetings=(Hello!)
print(greetings, name)
```

7- conditional_logical

In [ ]:
```
# logical operators yes/no, true/false, 0/1
# equal to ==
# less than <
# greater than >
# less han and equal to <=
# less han and equal to >=
# not equal to !=
print(4!=4)
print(4>3)
# applications of logical operators
# meerum_age=4
# age_at_school=5
# print(meerum_age==age_at_school)
#input function and logicals
meerum_age=input("how old are you?") #input function
age_at_school=5
meerum_age=int(meerum_age)
print(meerum_age==age_at_school) #logical operator
```

8- type_conversion

In [ ]:
```
x= 15
y= 20.2
z= "Hi"

x=x*y
x=x/y

print(x, "type of x is:", type(x))
print(type(y))
#explicit type conversion
age=input("what is your age?)
age=int(age)
print(age, type(int(age))
```

14- Data_visualization

In [ ]:
```
#steps involved in data visualization
# Step-1 import libraries
import seaborn as sns
import matplotlib.pyplot as plt
#step-2 set a theme
sns.set_theme(style="ticks", color_codes=True)

# step-3 import data set
#titanic = sns.load_dataset("titanic")
#print(titanic)


# step-5 plot basic graph with 2 variables
p = sns.countplot(x= "Gender", data= chilla, hue="Age")
p.set_title("stats")
plt.show()
```

15- chilla_data

In [ ]:
```
#step_1 import library
import pandas as pd
#step_2 from file
chilla= pd.read_csv("data_chilla")
print(chilla)
```