Participant

Title= "Mr"

Name = Khawaja Awais Iqbal

email= khawais99@gmail.com

whatsapp= 00923008304449

Pythone ka chilla with baba Aammar

How to use Jupter Notebook

Basic of Python

1. My Ist Programme

In [ ]:
```
print (2+3)
print("Hello Shaheer")
print("Learn python with Aamer")
```

```
5
Hello Shaheer
Learn python with Aamer
```

2. Operators

In [ ]:
```
print(2+3)
print(3-1)
print(6/2)
print(2*3)
print(13%2)
print(9//2)        # for the whole number
print(3**3)        # for ** use for power of value

print(3**2/2*3/3+6-4)
```

```
5
2
3.0
6
1
4
27
6.5
```

PEMDAS Parenthesis Exponents Multiplication Division Addition Subtraction (left to right Sequence)

3. Strings

In [ ]:
```
print("Hello World")
print("We are learning Python")

print('Test for single qoute')
print("Test for Double qoute")
print('''Test for Triple qoute''')

print("   What's up   ? ")
```

```
Hello World
We are learning Python
Test for single qoute
Test for Double qoute
Test for Triple qoute
   What's up   ?
```

4. Comments

In [ ]:
```
# Press Crtl + / for comment out
print("Hello How are you")
print("We are learning Python with Aammar") # Print string


print(2**9)  # Print Integer
```

```
Hello How are you
We are learning Python with Aammar
512
```

5.Veriables

In [ ]:
```
# Varriables : objecct contain specific values
x=5 #   numeric or integer
print(x)


y="We are learning Python with Aammar" # string
print(y)

x=x+10
print(x)

#type/class of variabble
type(x)
print(type(x))

print(type(y))


# Rules of Varriables
# 1.it contain letters,numbers or underscores
# 2.Dont start with numbers
# 3.Space are not allowed
# 4.Dont use keywords (break,mean, median,test etc.. check keywords on google)
# 5.Short and Descriptive
# 6.Case Sensetive


fruit_basket=8
print(type(fruit_basket))
fruit_basket="Mangoes"
print(type(fruit_basket))

print(fruit_basket)
```

```
5
We are learning Python with Aammar
15
<class 'int'>
<class 'str'>
<class 'int'>
<class 'str'>
Mangoes
```

6. Input Varriables

In [ ]:
```
#Input function simple
fruit_basket=input(" What is your favourite fruit ?")
print(fruit_basket)

m
#Input function of 2nd stage
name=input("What is your name ?")
greetings="Hello!"

print(greetings,name)



#Input 3rd stage
name=input("What is your name ? ")
age=input("How old are you ? ")
print("Hello!" , name , ",You are still young..")
```

```
 What is your favourite fruit ?mango
mango
What is your name ?awais
Hello! awais
What is your name ? awais
How old are you ? 42
Hello! awais ,You are still young..
```

7. Conditional Logical Operators

In [ ]:
```
#Logical operators are true or false,0 or 1, yes or no
#equal to                        ==
#not equal to                    !=
#less than                        <
#greater than                     >
#less than equal to              <=
#greater than equal to           >=

print(4==4)
print(4!=4)
print(4>3)
print(4<1)
print(3>=6)
print(3<=5)



#application of logical operators
shaheer_age=4
age_at_school=5
print(shaheer_age==age_at_school)


#Input function and logical operators
shaheer_age=input("What is Shaheer age? ")
shaheer_age=int(shaheer_age)
age_at_school=5
print(shaheer_age==age_at_school)
```

```
True
False
True
False
False
True
False
What is Shaheer age? 5
True
```

8.Type Conversion

In [ ]:
```
x=10                    # Integer
y=10.2                  # Float
z="Hello"               # String

print(x)
print(y)
print(z)

# Implicit type Conversion
x=x*y
print(x,"Type of x is", type(x))

# Explicit type Conversion
age=input("What is your Age? ")
age=int(age)
print(age, type(int(age)))

#name
name=input("What is your name? ")
age=str(name)
print(name, type(str(name)))
```

```
10
10.2
Hello
102.0 Type of x is <class 'float'>
What is your Age? 43
43 <class 'int'>
What is your name? khawaja awais
khawaja awais <class 'str'>
```

9. if , else and elif

In [ ]:
```
required_age_for_school =5
# shaheer_age = 4

# if shaheer_age==required_age_for_school:
#     print("Shaheer can go to school")
# else:
#     print("Shaheer can't go to school")


# Use elif
shaheer_age=17

if shaheer_age==required_age_for_school:
    print("Congratulations,Shaheer can go to school")
elif shaheer_age > required_age_for_school:
    print("Shaheer can join the College")
else:
    print("Sorry,Shaheer can't go to school")

# Use more conditions
shaheer_age=2

if shaheer_age==required_age_for_school:
    print("Congratulations,Shaheer can go to school")
elif shaheer_age > required_age_for_school:
    print("Shaheer can join the College")
elif shaheer_age <= 2:
    print("Shaheer is still a baby,Let him enjoy")
else:
    print("Sorry,Shaheer can't go to school")

# if ,elif , else statement clear
```

```
Shaheer can join the College
Shaheer is still a baby,Let him enjoy
```

10. Functions

In [ ]:
```
# print("Doing Python ka Chilla with Baba G")
# print("Doing Python ka Chilla with Baba G")
# print("Doing Python ka Chilla with Baba G")
# print("Doing Python ka Chilla with Baba G")
# print("Doing Python ka Chilla with Baba G")
# print("Doing Python ka Chilla with Baba G")

#defing the function

# def print_codanics():
#     print("Doing Python ka Chilla with Baba G")
#     print("Doing Python ka Chilla with Baba G")
#     print("Doing Python ka Chilla with Baba G")

# print_codanics()

# Another way
# def print_codanics():
#     text="Learning Pyhthon with Baba Ammar"
#     print(text)
#     print(text)
#     print(text)
# print_codanics()

# # 3rd way
# def print_condanics(text):
#     print(text)
#     print(text)
#     print(text)
# print_condanics("We are learning Python with Baba G")

# Defing a function with if,elif and else statemen
# def school_calc(age,text):
#     # shaheer_age=2
#     required_age_for_school=5

#     if age==required_age_for_school:
#         print("Congratulations,Shaheer can go to school")
#     elif age > required_age_for_school:
#         print("Shaheer can join the College")
#     elif age <= 2:
#         print("Shaheer is still a baby,Let him enjoy")
#     else:
#         print("Sorry,Shaheer can't go to school")
# school_calc(5,"Shaheer")


# define future age function

def future_age(age):
    new_age = age+10
    return new_age
    print(new_age)

future_predicted_age=future_age(15)
print(future_predicted_age)
```

```
25
```

11. Loops

In [ ]:
```
# while loop and for loop

# While loop

# x=0
# while(x<5):
#     print(x)
#     x=x+1

#For loop
# for x in range(5,10):
#     print(x)

# array
days=["Mon","tue","Wed","Thur","Fri","Sat","Sun"]
for d in days:
    # if (d=="Thur"):break    #loop stop
    if(d=="Fri"): continue
    print(d)
```

```
Mon
tue
Wed
Thur
Sat
Sun
```

12. Import Libraries

In [ ]:
```
# value of pi
import math
print("the value of pi",math.pi)


import statistics
x=[150,250,350,450]
print(statistics.mean(x))
```

```
the value of pi 3.141592653589793
300
```