Python

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Learning

Print

- print("Hello world")

- x=5 #Here x is variable with value 5
- print (x) # For string, put quotes. For variable, No quotes

- print (" value of x={}".format(x))

#string and variable with proper format - preferable

Input

- Var=input()

#to take input

- Var=input("Please provide input:")
  - # use above method, take input with description,
  - #so that user can understand what input is

Type

- type(*variable_name)*

#To check the type of the variable

Mathematical Operators:

- + #addition
- - #subtraction
- * #multiplication
- / #division
- % #modulo
- ** #power

String Operators:

- + #string concatenation
  - Str1 = “hello”, Str2 = “world”
  - Con = str1+str2 #Con -> helloworld
- * #string multiplication
  - Mul = str1*3 #Mul -> hellohellohello
- Str.lower() #converts String in lower case
- Str.upper() # converts String in upper case

Comparison

- Always returns True or False
- == #equals to
- < #less than
- <= #less than or equals to
- > #greater than
- >= # greater than or equals to
- Str.islower() #checks whether the entire string is in lower case or not
- Str.isupper() #checks whether the entire string is in upper case or not

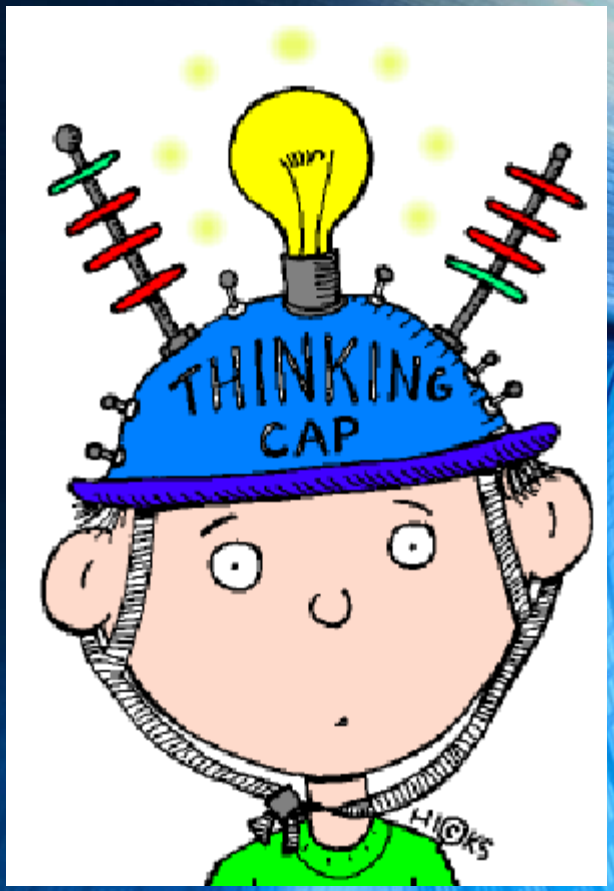
If – else condition

- if (condition):
  - #do something 1
- elif(condition): #optional
  - #do something 2
- else: #optional with if, compulsory with if-elif
  - #do something 3

Keywords

False	elif	lambda
None	else	nonlocal
True	except	not
and	finally	or
as	for	pass
assert	from	raise
break	global	return
class	if	try
continue	import	while
def	in	with
del	is	yield

Tasks



Find the area of circle

- Take radius as input from the user, and calculate area of circle
- Hint: Area of circle : πr^2

Find the area of Rectangle

- Take length l and width w as inputs from the user
- calculate area of the rectangle

Even - odds

- Check whether the input number is even or odd.

Determine Age

- Take age from user
- Check age
  - If Age<13 than User is a kid
  - If Age>=13 and Age<=19 than User is a teen
  - If Age>19 than user is an Adult

String case operation

- Check whether user input is in lower case or upper case, print the answer.
- #Return the 2 new string, one with upper case and second in lower case. (incomplete)