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#!/usr/bin/env python
# coding: utf-8

# In[1]:


s1 = 'PYTHON'
s2 = 'COMPETITIVE'
print(s1 + s2)


# In[2]:


s1 = 'PYTHON'
s2 = 3
print(s1+s2)


# In[3]:


s1 = 'PYTHON'
s2 = 3
print(s1+str(s2))


# In[4]:


s1 = "ABC"
n = 3
print(s1*3)


# In[5]:


print(ord('a'))
print(chr(98))


# In[6]:


s1 = 'PYTHON'
s2 = 'PYTHON'
print(s1 == s2) #True
print(s1 != s2) #False

s3 = 'python'
print(s1 == s3) #False
print(s1 != s3) #True

print(s1 > s3) #False
print(s2 < s3) #True
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# In[7]:


s1 = "KAPIL"
s2 = "KAPIl"
print(s1 < s2)


# In[8]:


s1 = "KApIL"
s2 = "KAPIl"
print(s1 < s2)


# In[9]:


print(5 or 10) #5 is first operand it is true so answer will be 5
print(3 or 0)  #3 is first operand it is true so answer will be 3
print(0 or 8)  #0 is first operand it is false so answer will be 8
print(0 or 0)  #0 is first operand it is false so answer will be 0


# In[10]:


print("" or 10)
print("ABC" or 0)
print("ABC" or "PQR")
print("" or "")


# In[11]:


print(5 and 10) #5 is first operand it is true so answer will be 10
print(3 and 0)  #3 is first operand it is true so answer will be 0
print(0 and 8)  #0 is first operand it is false so answer will be 0
print(0 and "")  #0 is first operand it is false so answer will be


# In[12]:


print(5 and 10) #5 is first operand it is true so answer will be 10
print(3 and 0)  #3 is first operand it is true so answer will be 0
print(0 and 8)  #0 is first operand it is false so answer will be 0
print(0 and "")  #0 is first operand it is false so answer will be 0


# In[13]:
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print("ex" in "Regex")
print("ex" in "RegEx")
print("ex" not in "Regex")
print("ex" not in "RegEx")


# In[14]:


name = input("Please enter name")
print("Your name is",name)


# In[15]:


a = input("Please enter first number ")


# In[16]:


a = input("Please enter first number ")
b = input("Please enter second number ")
c = a + b #Concatenation
print("c = ",c)


# In[17]:


a = int(input("Please enter first number "))
b = int(input("Please enter second number "))
c = a + b #Addition
print("c = ",c)


# In[18]:


a = 10
b = int(input("Enter number ")) #say 10
if a == b:
    print("a and b both have value 10")
else:
    print("a and b both have different values")

if a is b:
    print("a and b both refer to same object having value 10")
else:
    print("a and b both refer to different objects")

print(a,id(a),b,id(b))


# In[19]:
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a = 1000
b = int(input("Enter number ")) #say 1000
if a == b:
    print("a and b both have value 1000")
else:
    print("a and b both have different values")

if a is b:
    print("a and b both refer to same object having value 1000")
else:
    print("a and b both refer to different objects")

print(a,id(a),b,id(b))


# In[21]:


a = 1.5
b = float(input("Enter number ")) #say 1.5
if a == b:
    print("a and b both have value 1.5")
else:
    print("a and b both have different values")

if a is b:
    print("a and b both refer to same object having value 1.5")
else:
    print("a and b both refer to different objects")

print(a,id(a),type(a),b,id(b),type(b))


# In[22]:


a = 1.5
b = 1.5
if a == b:
    print("a and b both have value 1.5")
else:
    print("a and b both have different values")

if a is b:
    print("a and b both refer to same object having value 1.5")
else:
    print("a and b both refer to different objects")

print(a,id(a),type(a),b,id(b),type(b))


# In[23]:


a = 'KAPIL'
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# In[24]:


a = 'KAPIL'
b = 'KAPIL'
c = input("ENTER NAME") #Say KAPIL
print(a,id(a),type(a),b,id(b),type(b),c,id(c),type(c))


# In[26]:


a=int(input("enter number")) #10
b=int(input("enter number")) #10
print(a is b)
print(a == b)
print(id(a), id(b))


# In[28]:


a,b = 20,10
mn = a if a < b else b
print(mn)


# In[29]:


s1 = "INFORMATION" #from range 0 to 10
print(s1)    #INFORMATION
print(s1[4]) #R
print(s1[0:11:1]) #INFORMATION


# In[30]:


s1 = "INFORMATION" #from range 0 to 10
print(s1)    #INFORMATION
print(s1[4]) #R
print(s1[0:11:1]) #INFORMATION
print(s1[::]) #it is same as above INFORMATION
print(s1[:]) #it is same as above INFORMATION
print(s1[0:6:1]) #INFORM
print(s1[0:6:2]) #IFR
print(s1[5:11:3]) #MI


# In[31]:


s1 = "INFORMATION" #from range 0 to 10
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# In[34]:


s1 = "INFORMATION" #from range 0 to 10
print(s1[2:10:2])
print(s1[-9:-1:2])
# -9 => -9 + 11 = 2
# -1 => -1 + 11 = 10
print(s1[::-1])


# In[35]:


s1 = "NAYAN"
print("Palindrom" if s1 == s1[::-1] else "NOT PALINDROME")


# In[ ]:
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