hi All Good Morning

Today Lab Session... Start doing programs

Under Training.com

Complete---Practice Exercises

Chapter 1--Exercise 1 and 2(few completed on 20th june )

Chapter 2--Exercise 1 and 2

i=10

s="roshan"

f=8.87

c=7+6j

b=False

print(type(b))

print(int(f))

Chapter 3--Exercise 1 and 2

Also Complete Guided Practice

Week1 from Introduction to Strings

Additional Lab Exercises(run time values)

1.Greatest of 2 nos--Equality,greatest use if elif and else

2.Greatest of 3 nos---using operator or nested if else

Try like this:::

if (no1==no2) and (no1>no3): print("no1 and no2 are equal and its greater than no3")

elif (no1==no3) and(no1>no2): print("no1 and no3 are equal and its greater than no2")

elif (no2==no3) and(no2>no1):print("no3 and no2 are equal and its greater than no1")

elif (no1>no2) and(no1>no3): print("No1 is greatest among all 3")

elif (no2>no3) and (no2>no1): print("No2 is greatest among all 3")

3.Check whether given no is even or odd --use if else

no=int(input("Enter a number"))

if no%2==0:

print("Even no") #print("%d is even no"%(no))

else:

print("ODD no")

4.Check whether given char is vowel or consonent----use or operator with if else

ch=input("Enter a character")

if ch=='a' or ch=='e' or ch=='i' or ch=='o' or ch=='u':

print("given char %s is vowel"%(ch))

else:

print("given char %s is Consonent"%(ch))

ch=input("Enter a character")

if (ch=='a')| (ch=='e') | (ch=='i') | (ch=='o') | (ch=='u'):

print("given char %s is vowel"%(ch))

else:

print("given char %s is Consonent"%(ch))

5.Sum and product of given no using while loop

no=int(input("Enter a number"))

Enter a no: 5

Sum: 15 1+2+3+4+5

Product: 120 1\*2\*3\*4\*5

no=int(input("Enter a number"))

i=1

s=0

p=1

while i<=no: # i=1 1<7 2<7 3<7 4<7......7<=7 8<=7(failed)

s=s+i

p=p\*i

i=i+1

print("Sum of given natural number",s)

print("product of given natural number",p)

6.Display number from 1 to 10 using while loop

i=10

while i>=1:

print(i)

i=i-1

print("End")

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x=1

while x<=10:

print(x)

x=x+1

print("End")

7.Display 5 Multiples from 5 to 100 using while loop

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x=5

while x<=100:

print(x)

x=x+5

print("End")

8.Split URL into Strings---use split()

Example:

Input:::www.training.com/course/python/details

Output ['training','course','python','details']

9.Reverse of Question no 8------use join()

10.String Reverse Example:Input: welcome Output: emoclew

#program 8

url = "www.training.com/course/python/details"

url\_list = url.split("/")

domain = url\_list[0].split(".")

#domain[0]='www' domain[1]='training' domain[2]='com'

url\_list.insert(1,domain[1])

print(url\_list[1:])

#program 9

list1= ['training','course','python','details','modulename']

url2 = "/".join(list1[1:])

print("www."+list1[0]+".com"+"/"+url2)

#program 10--- various way of reversing the string

s1="welcome"

print(s1)print(s1[::-1])

#area of triangle

s1 = 10

s2 = 12.3

s3 = 17.5

T\_sides = (s1 + s2 + s3) / 2

T\_area = (T\_sides\*(T\_sides-s1)\*(T\_sides-s2)\*(T\_sides-s)) \*\* 0.5

print('The area of the triangle is %0.2f' %T\_area )

#area of circle

r=5

pi=3.14

R\_area=pi\*(r\*\*2)

print("The area of the triangle is %0.2f" %R\_area)

Identity Operator --is and is not

x=10

print(type(x) is int)#True

s1="hello"

s2="hello"

print(s1 is s2)#True

print(s1 is not s2)#False

Membership Operator ---- in and not in

s1="hello"

print('e' in s1) #True

Array------LIST ---collection of values

x=[10,20,30,40,50]

print(20 in x)#True

print(100 in x)#False

print(100 not in x)#True

print()

a=int(input("Enter A value"))

b=int(input("Enter B value"))

ch=input("Enter a character")

if ch=='a' or ch=='e' or ch=='i' or ch=='o' or ch=='u':

print("given char %s is vowel"%(ch))

else:

print("given char %s is Consonent"%(ch))

ch=input("Enter a character")

if (ch=='a')| (ch=='e') | (ch=='i') | (ch=='o') | (ch=='u'):

print("given char %s is vowel"%(ch))

else:

print("given char %s is Consonent"%(ch))

if (no1==no2) and (no1>no3): print("no1 and no2 are equal and its greater than no3")

elif (no1==no3) and(no1>no2): print("no1 and no3 are equal and its greater than no2")

elif (no2==no3) and(no2>no1):print("no3 and no2 are equal and its greater than no1")

elif (no1>no2) and(no1>no3): print("No1 is greatest among all 3")

elif (no2>no3) and (no2>no1): print("No2 is greatest among all 3")