Python Exercises

1. **Make environment ready.** Downloaded Anaconda Navigator and using Spyder (Python 3.11)
2. **Print Hello World**!

Print(“Hello World”)

1. **Branching and Looping**

**Print name 5 times**

Ans: for I in range(5):

Print(“San”)

1. **Print odd numbers 1 to 10 using range**

Ans: for i in range (1,10,2)

Print(i)

1. **Print 5 to 10**

Ans: for num in (5,11)

Print(num)

1. **Print even from 6 to 18**

Ans: for i in range (6,18,2)

Print(i)

1. **Print multiples of 3 until 30**

Ans: number=3

Print(“the multiples are: “)

For I in range(1,11):

Print(number)

1. **FizzBuzz in python**

Ans: for i in range(1,16):

if i % 3 == 0 and i % 5 == 0:

print(i , "fizzbuzz")

continue

elif i % 3 == 0:

print(i, "fizz")

continue

elif i % 5 == 0:

print(i, "buzz")

1. **Accept input from user and print it out contains a vowel**

Ans: i=input(“Enter text: “)

For char in i:

If char.lower() in ‘aeiou’:

Print(char)

1. **Accept 5 names from user and print final report which one has vowel and which does not**

Ans: a=[]

vowels = {"a", "e", "i", "o", "u", "A", "E", "I", "O", "U"}

for name in range(5):

inputname=input("Enter name: ")

a.append(inputname)

for name in a:

if any(char in vowels for char in name):

print (name, "is a vowel.")

else:

print (name, "is not a vowel.")

1. **Accept 5 names but print only names with vowels at end.**

a=[]

vowels = {"a", "e", "i", "o", "u", "A", "E", "I", "O", "U"}

for name in range(5):

inputname=input("Enter name: ")

if any(char in vowels for char in inputname):

a.append(inputname)

for name in a:

if any(char in vowels for char in name):

print (name, "is a vowel.")

1. **Sum up a list of 5 numbers**

a=[ 1, 3, 5, 7, 9]

sm=sum(a)

print("The sum of :", a)

print(sm)

1. **Find biggest number in a list of numbers**

a=[ 1, 3, 5, 7, 9]

sm=max(a)

print("The max of :", a)

print(sm)