Day-3 Morning Assessment

For loop with numbers:

1. for i in range(1,11):

print(i)

1. for i in range(1,21):

if i%2 == 0: print(i)

1. for i in range(1,21):

if i%2 != 0: print(i)

1. for i in range(10,0,-1):

print(i)

1. for i in range(51):

if i%5 ==0: print(i)

1. for i in range(1,6):

print(i\*i)

1. n = int(input(“enter a range to print the numbers:”))

for i in range(1,n+1):

print(i)

1. for i in range(101):

if i%7 ==0: print(i)

1. for i in range(1,51):

if i%2 == 0: print(“Even”)

else:print(“Odd”)

1. for i in range(1,11):

print(f“number: {i} and its square: {i\*i}”)

For Loop with Lists:

1. lis = list(input(“enter numbers into the list: “).split()))

for i in lis:

print(i)

1. lis = list(map(int, input(“enter numbers into the list: “).split()))

for i in lis:

if i>0: print(i)

1. lis = list(map(int, input(“enter numbers into the list: “).split()))

for i in lis:

if i>50: print(i)

1. lis = list(map(input(“enter strings into the list: “).split()))

for i in lis:

if i.startswith(“A”): print(i)

1. lis = list(map(int, input(“enter numbers into the list: “).split()))

count = 0

for i in lis:

if i%2 == 0:count+=1

print(count)

1. lis = list(map(int, input(“enter numbers into the list: “).split()))

for i in lis:

if i%3 == 0: print(i)

1. lis = list(map(int, input(“enter numbers into the list: “).split()))

max = lis[0]

for i in lis:

if i<i+1:max=lis[i+1]

print(max)

1. lis = list(map(int, input(“enter numbers into the list: “).split()))

min = lis[0]

for i in lis:

if i>i+1:min=lis[i+1]

print(min)

1. lis = list(map(int, input(“enter numbers into the list: “).split()))

sum = 0

for i in lis:

sum = sum+i

print(sum)

1. lis = list(map(int, input(“enter numbers into the list: “).split()))

sum = 0

for i in lis:

sum = sum+i

avg = sum/len(lis)

print(avg)

For Loop with Ranges and Conditions:

1. for i in range(1,51):

count = 0

if j in range(1,i//2+1):

if i%j ==0: count+=1

if count ==1: print(i)

1. print(“Numbers between 1 to 100: “)

for i in range(1,101):

print(i)

print(“Numbers that are divisible by both 2 and 5 are: “)

for i in range(1,101):

if(i%2 == 0 and i%5 == 0): print(i)

1. for i in range(1,31):

if i%3 ==0: print(“Fizz”)

else: print(i)

1. for i in range(5):

print(“Hello”)

1. num = int(input(“please enter a number”))

fact =1

for i in range(1,num+1):

fact = fact\*i

print(fact)

1. str = input(“please enter a string:”)

count = 0

for i in str:

if i in ‘aeiou’ or i in ‘AEIOU’:count = count+= 1

print(count)

1. str = input(“please enter a string:”)

rev = “ “

for i in str:

rev = i+rev

print(rev)

1. num = int(input(“please enter a number: “))

n=num

sum = 0

for i in range(len(num)):

n= num//10

rem = num%10

num = n

sum = sum+rem

1. num = int(input(“please enter a number: “))

for i in range(1,11):

print(f” {num} x {i} = {num\*i}”)

1. num = int(input(“please enter a number: “))

temp = num

rev = 0

for i in range(len(num)):

rem = num%10

rev = rev\*10+rem

num = num//10

if temp == rev: print(“palindrome”)

If-Else with User Input:

1. num = int(input(“please enter a number: “))

if num > 0: print(“Positive”)

elif num < 0: print(“Negative”)

else: print(“zero”)

1. year = int(input(“please enter a year: “))

if year%4 == 0: print(“Leap Year”)

else: print(“Non-Leap Year”)

1. num = int(input(“please enter a number: “))

if num%2 == 0: print(“Even”)

else: print(“Odd”)

1. num = int(input(“please enter a number: “))

if (num%5 == 0 and num%11 == 0):print(“True”)

1. ch = input(“Enter a character: ”)

if ch in ‘aeiou’ or ch in ‘AEIOU’: print(“Vowel”)

else: print(“Consonant”)

1. num = int(input(“please enter a number: “))

if 100<=num<=999: print(“True”)

1. ch = input(“Enter a character: ”)

if ch in ‘abcdefghijklmnopqrstuvwxyz’: print(“Lowercase”)

else: print(“Uppercase”)

1. age= int(input(“please enter your age: “))

if age >=18: print(“Eligible”)

else: print(“Not-Eligible”)

1. num = int(input(“please enter a number: “))

if num%2==0 and num%3 ==0: print(“Divisible by both”)

elif num%2 == 0: print(“Divisible by 2”)

elif num%3 == 0: print(“Divisible by 3”)

else:print(“not divisible by any of the given number”)

1. num = int(input(“please enter a number: “))

if num == 0: print(“Zero”)

elif num%2 == 0: print(“Even”)

else: print(“Odd”)