Vishakha (python day 2 assignment)

1. def add(n1,n2):

return n1+n2

def sub(n1,n2):

return n1-n2

def mul(n1,n2)

return n1\*n2

def div(n1,n2)

return (n1/n2)

num1=int(input(“enter first number:”))

num2=int(input(“enter second number))

print(“+++addition+++”)

print(num1,”+”num2,”=”,add(num1,num2))

print (“—subtraction ---“)

print(num1,”-“num2,”=”,sub(num1,num2))

print(“\*\*multiplication\*\*”)

print(num1,”\*”num2,”=”,mul(num1,num2))

print(“//division//”)

print(num1,”/”num2.”=”,div(num1,num2))

2. def binary\_insertion\_sort(alist):

For I in range(I,len(alist)):

Temp=alist[i]

Pos=binary\_search(alist,temp,0,i)+1

For k in range(I,pos,-1):

Alist[k]=alist[k-1]

Alist[pos]=temp

define binary\_search(alist,key,start,end):

if end-start<=1:

if key<alist[start]:

return start-1

else:

return start

mid=(start+end)/2

if alist[mid]<key:

return binary\_search(alist,key,mid,end)

elif alist[mid].key:

return binary\_search(alist,key,start,mid)

else:

return mid

alist=input(“enter the list of numbers:”).split()

alist=[int(x) for x in alist]

binary\_insertion\_sort(alist)

print(“sorted list:”,end=””)

print(alist)

1. num =2

for i in range(1,11):

print(num,’x’,I,’=’,num\*i)

1. num=7

factorial=1

if num<0:

print(“factorial does not exist”)

elif num==0:

print(“the factorial of 0 is 1”)

else:

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

factorial=factorial\*i

print(“the factorial of”,num,””is”,factorial)

5.number=int(input(“enter a number:”))

Sqrt=number\*\*0.5

Print(“square root:”,sqrt)

6.num=11

If num>1:

For I in range(2,int(num/2)+1);

If(num%i)==0:

Print(“number is not a prime number:”)

Break

else:

print(“number is a prime number”)