ASSIGNMENT 1

[Note: I have done all these programs in online python ide programiz.com]

1)

a)

name=”Moitrish”

print(name)

b)

name=str(input(“Enter name:”)

print(“Hello!”,name)

c)

a=int(input(“Enter num1”)

b=int(input(“Enter num2”)

print(“Sum:”,a+b)

d)

a=int(input(“Enter num1”)

b=int(input(“Enter num2”)

print(“Diff:”,a-b)

e)

a=int(input(“Enter num1”)

b=int(input(“Enter num2”)

print(“Pdt:”,a\*b)

f)

a=int(input(“Enter num1”)

b=int(input(“Enter num2”)

print(“Rem:”,a%b)

g)

a=int(input(“Enter num1”)

b=int(input(“Enter num2”)

print(“Quo:”,int(a/b))

h)

a=int(input(“Enter num1”)

b=int(input(“Enter num2”)

print(“Answer:”,a\*\*b)

i)

s1=str(input(“input string”)

print(s1)

j)

s="Moitrish"

print(s[0])

print(s[5])

k)

s1="Moitrish\n"

s2="Maity"

print(s1+s2)

l)

s=r”Hello\nWorld”

print(s)

m)

s=input(“enter integer”)

s=int(s)

print(s+s)

n)

s=int(input(“enter integer”))

s=str(s)

print(s+s)

o)

s1=input("Enter 1st str")

s2=input("Enter 2nd str")

print(s1,s2)

p)

s1=input("Enter 1st str")

s2=input("Enter 2nd str")

print(s1+s2)

q)

a=float(input("Enter float val"))

b=int(input("Enter int val"))

print(round(a\*b+3,2))

2)

c=float(input("Enter centigrade"))

f=(9\*c/5)+32

print(f)

3)

h=int(input("Enter hours"))

w=float(input("Enter wage"))

gpay=w/h

print(round(gpay,2))

4)

p=int(input("Enter principal"))

i=float(input("Enter interest"))

y=int(input("Enter years"))

p=p+(p\*i\*y/100)

print(round(p,2))

5)

import cmath

import math

a=int(input("a: "))

b=int(input("b: "))

c=int(input("c: "))

D=(b\*b)-(4\*a\*c)

if D<0:

img=(math.sqrt(math.fabs(D)))

com=complex(0,img)

x1=(-b+com)/(2\*a)

x2=(-b-com)/(2\*a)

print("Roots:",x1,x2)

elif D>0:

x1=(-b+math.sqrt(D))/(2\*a)

x2=(-b-math.sqrt(D))/(2\*a)

print("Roots:",x1,x2)

else:

x=-b/(2\*a)

print("Root:",x)

6)

Add:

import cmath

a1=int(input("Real "))

b1=int(input("Imag "))

c1=complex(a1,b1)

print(c1)

a2=int(input("Real "))

b2=int(input("Imag "))

c2=complex(a2,b2)

print(c2)

c3=c1+c2

print(c3)

Subtract:

import cmath

a1=int(input("Real "))

b1=int(input("Imag "))

c1=complex(a1,b1)

print(c1)

a2=int(input("Real "))

b2=int(input("Imag "))

c2=complex(a2,b2)

print(c2)

c3=c1-c2

print(c3)

Product:

import cmath

a1=int(input("Real "))

b1=int(input("Imag "))

c1=complex(a1,b1)

print(c1)

a2=int(input("Real "))

b2=int(input("Imag "))

c2=complex(a2,b2)

print(c2)

c3=c1\*c2

print(c3)

Division:

import cmath

a1=int(input("Real "))

b1=int(input("Imag "))

c1=complex(a1,b1)

print(c1)

a2=int(input("Real "))

b2=int(input("Imag "))

c2=complex(a2,b2)

print(c2)

c3=c1/c2

print(c3)