1(a).

a=2

b=5

c=4

x=a\*a+b\*b+c\*c

print(x)

print(pow(x,0.5))

output:

45

6.708203932499369

(b).

x=2

y=5

a=10

c=x\*x\*x+y\*y-(pow(x\*y,0.5))/2\*a

print(c)

output:

17.188611699158102

2.Error in this code:

a=10

if a==10: ----> (error invalid syntax)

print("a is equal to 10")

else:

print("a is not equal to 10")

output:

a is equal to 10

3.output of the following code:

for j in range(1,11):

for i in range(1,11):

print("%3d"%(j\*i)),end="")

print()

output:

1 2 3 4 56 7 8 9 10

2 4 6 8 10 12 14 16 18 20

3 6 9 12 15 18 21 24 27 30

4 8 12 16 20 24 28 32 36 40

5 10 15 20 25 30 35 40 45 50

6 12 18 24 30 36 42 48 54 60

7 14 21 28 35 42 49 56 63 70

8 16 24 32 40 48 56 64 72 80

9 18 27 36 45 54 63 72 81 90

10 20 30 40 50 60 70 80 90 100

4.Fibonacci Series:

numfib=20

n1 = 0

n2 = 1

count = 0

while count<numfib:

print(n1)

a=n1+n2

n1=n2

n2=a

count += 1

output:

0

1

1

2

3

5

8

13

21

34

89

144

233

377

610

687

1597

2584

4181

5. Largest Among Three Numbers:

a1 = 5

a2 = 10

a3 = 6

if (a1 >= a2) and (a1 >= a3):

largest = a1

elif (a2 >= a1) and (a2 >= a3):

largest = a2

else:

largest = a3

print("The biggest number between","is",largest)

output:

The biggest number between is 10