Python Programming Basic Assignment1

Write a Python program to print "Hello Python"?

#1.

def greet(): this function will just print greetings. print("Hello Python") greet() Hello Python In [25]: #2. Write a Python program to do arithmetical operations addition and division.? def calculate(): this function will give you addition and divisions of two integers. try: a = int(input("Enter 1st number: ")) b = int(input("Enter 2nd number: ")) #addition = a+b #division = a/b print("\nAddition of {} and {} is {}".format(a,b,a+b)) print("Division of {} and {} is {}".format(a,b,a/b)) except Exception as e: print("\nSome exception occurred: ",e) calculate() Enter 1st number: 10 Enter 2nd number: 20 Addition of 10 and 20 is 30 Division of 10 and 20 is 0.5 In [26]: #3. Write a Python program to find the area of a triangle? def triangleArea(): this function will calculate the area of a triangle.

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try:
    a = float(input("Enter first side: "))
    b = float(input("Enter second side: "))
    c = float(input("Enter third side: "))
    s = (a+b+c)/2
    area = (s*(s-a)*(s-b)*(s-c)) ** 0.5
    print("\nThe area of triangle is %.2f"%area)
  except Exception as e:
    print("\nSome exception occurred: ",e)
triangleArea()
Enter first side: 10
Enter second side: 5
Enter third side: 7
The area of triangle is 16.25
                                                                                            In [24]:
#4.
         Write a Python program to swap two variables?
def swap():
  this function will swap two variables.
  try:
    a = int(input("Enter a: "))
    b = int(input("Enter b: "))
    print("\nBefore Swapping")
    print("a={} and b={}".format(a,b))
    a,b = b,a
    print("\nAfter Swapping")
    print("a={} and b={}".format(a,b))
  except Exception as e:
    print("\nSome exception occurred: ",e)
swap()
```

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Enter a: 10
Enter b: 20
Before Swapping
a=10 and b=20
After Swapping
a=20 and b=10
                                                                                    In [38]:
#5.
        Write a Python program to generate a random number?
import random
def genRandom():
  this function will generate a random number, including both the end points.
  try:
    lb = int(input("Enter Lower bound to generate a number: "))
    ub = int(input("Enter Upper bound to generate a number: "))
    random_number = random.randint(lb,ub)
    print("\nRandom number {} is generated between {} and {} including both the end
points".format(random number,lb,ub))
  except Exception as e:
    print("\nSome exception occurred: ",e)
genRandom()
Enter Lower bound to generate a number: 10
Enter Upper bound to generate a number: 50
```

Random number 42 is generated between 10 and 50 including both the end points