1. Write a Python program to print "Hello Python"?

In [1]:

```python
1  print("Hello Python")
```

Hello Python

2. Write a Python program to do arithmetical operations addition and division.?

In [13]:

```python
1  def my_func(num1, num2, choice):
2      if (choice == '+'):
3          return num1 + num2
4      elif (choice == '/'):
5          try:
6              return num1 / num2
7          except Exception as e:
8              return "Exception occured " + str(e)
9      else:
10         return "Enter a correct choice"
11
12
13
```

In [15]:

```python
1  try:
2      num1 = float(input("Enter first number"))
3      num2 = float(input("Enter second number"))
4      choice = str(input("Enter your choice for operator '+' or '/'"))
5
6      result = my_func(num1, num2, choice)
7      print(result)
8  except Exception as e:
9      print(e)
```

Enter first number12
Enter second number0
Enter your choice for operator '+' or '/'/
Exception occuredfloat division by zero

3. Write a Python program to find the area of a triangle?

In [16]:

```python
1  import math
```

In [ ]:

```python
1  math.sqrt
```

In [21]:

```python
try:
    side_one = float(input('enter side one'))
    side_two = float(input('enter side two'))
    side_three = float(input('enter side three'))

    # calculate semi perimeter
    s = (side_one+side_two+side_three)/2

    try:
        area = math.sqrt(s*(s-side_one)*(s-side_two)*(s-side_three))
        print(f"The area of the triangle is {area}")

    except Exception as e:
        print(e)
except Exception as e:
    print(e)
```

```
enter side one12
enter side two14
enter side three15
The area of the triangle is 78.92678569408487
```

4. Write a Python program to swap two variables?

In [25]:

```python
def swap_var():
    '''
    This function swap the two variables
    '''
    global var1
    global var2
    var2, var1 = var1, var2
    return var1, var2
```

In [27]:

```python
var1 = 'Rahul'
var2 = 'Priya'
swap_var()
print(var1, var2)
```

```
Priya Rahul
```

5. Write a Python program to generate a random number?

In [30]:

```python
import random
random.randint(1, 100)  # this will return a random integer within the range (1,
```

Out[30]:

```
80
```

In [ ]:

```
1
```