# **Python Programming**

Assignment Date	19 September 2022
Team ID	PNT2022TMID44143
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Maximum Marks	2 Marks

# Question-1:

Write a Python program to check whether three given lengths (integers) of three sides form a right triangle. Print "Yes" if the given sides form a right triangle otherwise print "No".

# **Solution:**

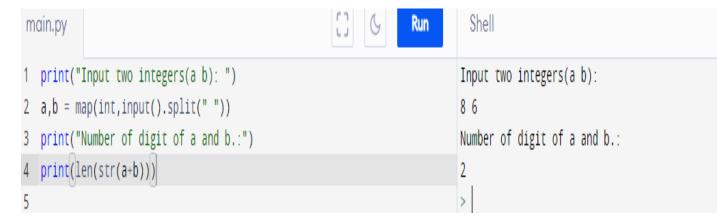
```
print("Input three integers(sides of a
triangle)")
int_num=list(map(int,input().split()))
x,y,z = sorted(int_num)
if x**2+y**2==z**2:
    print('Yes')
else:
    print('No')
```

# Question-2:

Write a Python program to compute the digit number of sum of two given integers.

#### **Solution:**

```
print("Input two integers(a b): ")
a,b = map(int,input().split(" "))
print("Number of digit of a and b.:")
print(len(str(a+b)))
```



# Question-3:

Write a python program to find heights of the top three building in descending order from eight given buildings.

#### **Solution:**

```
print("Input the heights of eight buildings:")

I = [int(input()) for i in range(8)]

print("Heights of the top three buildings:")

I = sorted(I)

print(*I[:4:-1], sep='\n')
```



# Question-4:

Write a Python program to compute the digit number of sum of two given integers.

#### **Solution:**

```
print("Input two integers(a b): ")
  a,b = map(intinput,().split(""))
  print("Number of digit of a and b.:")
  print(len(str(a+b)))
```

#### Question-4:

```
main.py

1 print("Input two integers(a b): ")
2 a,b = map(int,input().split(" "))
3 print("Number of digit of a and b.:")
4 print(len(str(a+b)))
5

Shell

Input two integers(a b):

5 6

Number of digit of a and b.:

2

5
```

# Question-5:

Write a Python program to compute and print sum of two given integers (more than or equal to zero). If given integers or the sum have more than 80 digits, print "overflow".

```
print("Input first integer:")
```

```
x = int(input())
print("Input second integer:")
y = int(input())
if x >= 10 ** 80 or y >= 10 ** 80 or x + y >= 10 ** 80:
    print("Overflow!")
else:
```

# print("Sum of the two integers: ",x + y)

```
print("Input first integer:")

1  print("Input first integer:")

2  x = int(input())

3  print("Input second integer:")

4  y = int(input())

5  if x >= 10 ** 80 or y >= 10 ** 80 or x + y >= 10 ** 80:

6  print("Overflow!")

7  r else:

8  print("Sum of the two integers: ",x + y)

9
Shell
Input first integer:
6
Sum of the two integers: 11
>
7 r else:
8  print("Sum of the two integers: ",x + y)
```