Assignment -2
Python Programming
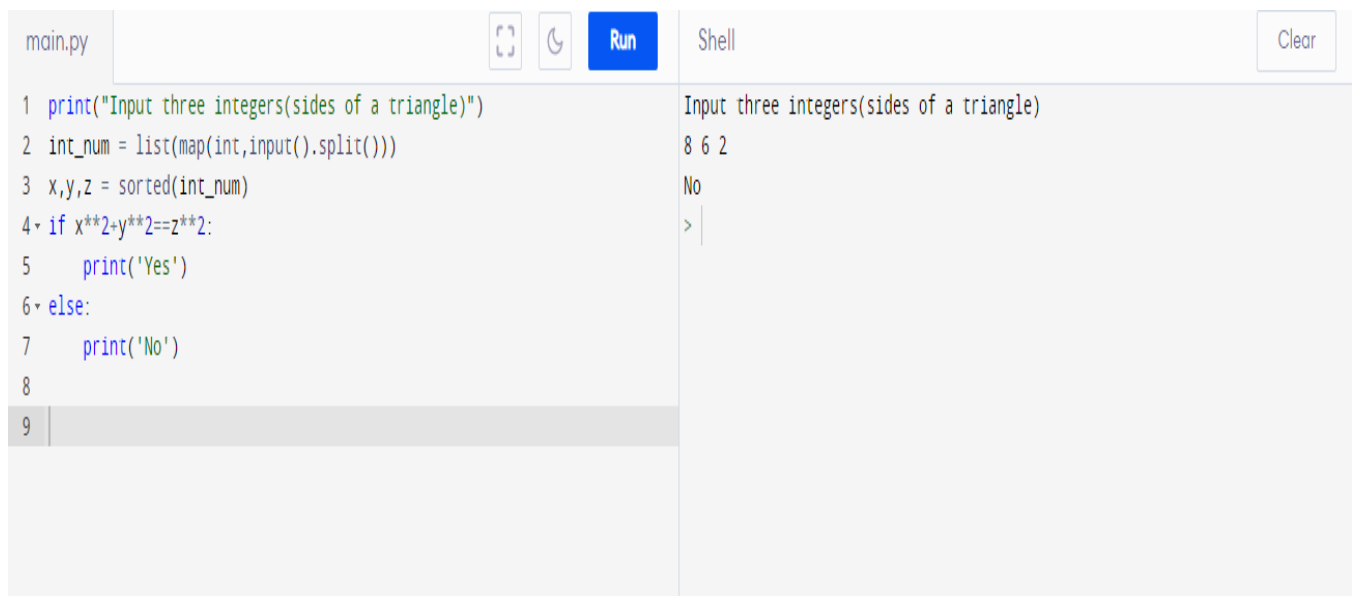
Assignment Date	29 September 2022
Team ID	PNT2022TMID44152
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Maximum Marks	2 Marks

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')
```

```
main.py                                      Run      Shell                                          Clear

1  print("Input three integers(sides of a triangle)")     Input three integers(sides of a triangle)
2  int_num = list(map(int,input().split()))               8 6 2
3  x,y,z = sorted(int_num)                                No
4▾ if x**2+y**2==z**2:                                    >
5      print('Yes')
6▾ else:
7      print('No')
8
9 |
```

Question-2:

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

Solution:

```python
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)))
```

```
main.py                                    [ ]  ( )  Run      Shell

1  print("Input two integers(a b): ")            Input two integers(a b):
2  a,b = map(int,input().split(" "))             8 6
3  print("Number of digit of a and b.:")         Number of digit of a and b.:
4  print(len(str(a+b)))                          2
5                                                >
```

Question-3:

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

Solution:

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

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

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

l = sorted(l)

print(*l[: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(int input, ().split(" "))

print("Number of digit of a and b.:")
print(len(str(a+b)))
```

Question-4:

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)
```

main.py   Run   Shell

```
1  print("Input first integer:")              Input first integer:
2  x = int(input())                           5
3  print("Input second integer:")             Input second integer:
4  y = int(input())                           6
5▾ if x >= 10 ** 80 or y >= 10 ** 80 or x + y >= 10 ** 80:   Sum of the two integers:  11
6      print("Overflow!")                     >
7▾ else:
8      print("Sum of the two integers: ",x + y)
9
```