

```
In [1]: #1
name = input("Enter your name:")
c1 = int(input("Enter score: "))
c2 = int(input("Enter score: "))
c3 = int(input("Enter score: "))
avg = (c1+c2+c3)/3
print(name)
print("Average score",avg)
```

Enter your name: John
 Enter score: 85
 Enter score: 95
 Enter score: 99
 John
 Average score 93.0

```
In [3]: #2
import random

num1 = random.randrange(5,101,5)
num2 = random.randrange(5,101,5)
num3 = random.randrange(5,101,5)
print("Your lucky three numbers:", num1,num2,num3,end=" ")
sum = num1+num2+num3
print()
print("Total point:",sum)
```

Your lucky three numbers: 65 25 30
 Total point: 120

```
In [4]: #3
import math
width = int(input("Enter width: "))
height = int(input("Enter height: "))

area = 1/2*width*height

#third_side = math.sqrt(math.pow(width,2)+math.pow(height,2))
third_side = math.sqrt((width*width) + (height*height))

perimeter = width+height+third_side

#print("The third side is {:.5f}".format(third_side))
print(f"Area: {area:.2f}")
print(f"The third side: {third_side:.2f}")
print(f"Perimeter: {round(perimeter,2):.2f}")
```

Enter width: 25
 Enter height: 14
 Area: 175.00
 The third side: 28.65
 Perimeter: 67.65

```
In [5]: #4
price = int(input("Enter the initial price: "))
TAX = 0.03
tax_amount = price * TAX
final_price = price + tax_amount
print()
title = "House Price"
print(f"{title:^50}")
print("_____")
print(f"Initial price: ${price:,.3f}")
print("_____")
print(f"Tax rate: {TAX:.0%}")
print(f"Tax amount: ${tax_amount:,.3f}")
print("_____")
print(f"Final price: ${final_price:,.3f}")
```

Enter the initial price: 200000

House Price
Initial price: \$200,000.000
Tax rate: 3%
Tax amount: \$6,000.000
Final price: \$206,000.000

```
In [6]: #5
boys = int(input("Enter the number of boys: "))
girls = int(input("Enter the number of girls: "))
total = boys + girls

boys_pct = (boys/total)
girls_pct = (girls/total)
print("_____")
print(f"Percentage of boys: {boys_pct:.0%}")
print(f"Percentage of girls: {girls_pct:.0%}")
print("_____")

if boys > girls:
    print("The number of boys are greater than the number of girls by",(boys-girls))
else:
    print("The number of girls are greater than the number of boys by",(girls-boys))
```

Enter the number of boys: 85
Enter the number of girls: 65

Percentage of boys: 57%
Percentage of girls: 43%

The number of boys are greater than the number of girls by 20