

```
1 num1 = int(input())
2 num2 = int(input())
3
4 if num1%2 == 0:
5     print("Even")
6 elif num2%2 == 0:
7     print("Even")
8 else:
9     sum1 = num1**2
10    sum2 = num2**2
11    print(sum1+sum2)
```

```
1 def factorial(n):
2     if n < 0:
3         print("Factorial cannot be calculated
4         for negative numbers.")
5     elif n == 0:
6         print("The factorial of 0 is 1.")
7     else:
8         fact = 1
9         for i in range(1, n + 1):
10             fact *= i
11             print("The factorial of", n, "is", fact)
12 number = int(input("Enter a number: "))
13 factorial(number)
14
```

```
1 import random
2
3 def guess_number():
4     number = random.randint(1, 100)
5     attempts = 5
6
7     while attempts > 0:
8         guess = int(input("Guess a number
9         between 1 and 100: "))
10
11         if guess == number:
12             print("Congratulations! You
13             guessed the number.")
14             return
15
16         elif guess < number:
17             print("Too low")
18
19         else:
20             print("Too high")
21
22         attempts -= 1
23
24     print("Game over! You ran out of
25     guesses.")
26
27 guess_number()
```

```
1 num_people = int(input("Enter the number  
of people: "))  
2 cost_per_meal = float(input("Enter the  
cost of each meal: "))  
3 sales_tax_percentage = float(input("Enter  
the sales tax percentage: "))  
4 tip_percentage = float(input("Enter the tip  
percentage: "))  
5  
6 total_cost_of_food = cost_per_meal *  
num_people  
7 total_sales_tax = total_cost_of_food *  
(sales_tax_percentage / 100)  
8 total_tip_amount = total_cost_of_food *  
(tip_percentage / 100)  
9 total_bill_amount_per_person =  
(total_cost_of_food + total_sales_tax +  
total_tip_amount) / num_people  
10  
11 print("Total bill amount per person:",  
total_bill_amount_per_person)  
12
```