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Exercise 1:

In [11]:
```python
first_number = 100
second_number = 29
Sum = first_number + second_number
Sum = Sum * 3
result = Sum * Sum
print("The result of the calculation was:")
print("     ",result)
```

```
The result of the calculation was:
      149769
```

Exercise 2:

In [27]:
```python
name = str(input("Name: "))
birth = str(input("Year of birth: "))
age = int(input("Age: "))
password =birth[2:] + name[:3] + str(age * age)
print("Password:",password)
```

```
Name: John
Year of birth: 1995
Age: 26
Password: 95Joh676
```

Exercise 3:

In [36]:
```python
first_number = int(input("First number: "))
second_number = int(input("Second number: "))
if first_number % 2 == 0 and second_number % 2 == 0:
    print("Both numbers are even")
elif first_number % 2 != 0 and second_number % 2 != 0:
    print("Both numbers are odd")
else:
    print("One of the number is even")
```

```
First number: 5
Second number: 6
One of the number is even
```

Exercise 4:

In [44]:
```python
n = int(input("Give an integer: "))

sum = 0
for i in range(0, n, 1):
    sum += i
print("The sum was:",sum)
```

```
Give an integer: 5
The sum was: 10
```

Exercise 5:

In [52]:
```python
import random
val = random.randint(0, 10)
guessing_number = 15
number_of_tries = 0
while (guessing_number != val):
    guessing_number = int(input("Player: "))
    number_of_tries += 1
    if(val != guessing_number):
        if(val > guessing_number):
            print("Try a greater number.")
        else:
            print("Try a smaller number.")
    if(val == guessing_number):
        print("That's right! Number of tries:", number_of_tries)
```

```
Player: 1
Try a greater number.
Player: 5
Try a smaller number.
Player: 3
That's right! Number of tries: 3
```

Bonus Game

In [60]:
```python
import random
val = random.randint(0, 10)

guessing_number_1 = 15
number_of_tries_1 = 0
while (guessing_number_1 != val):
    guessing_number_1 = int(input("Player1: "))
    number_of_tries_1 += 1
    if(val != guessing_number_1):
        if(val > guessing_number_1):
            print("Try a greater number.")
        else:
            print("Try a smaller number.")
    if(val == guessing_number_1):
        print("That's right! Number of tries:", number_of_tries_1)
print("")
print("")
guessing_number_2 = 15
number_of_tries_2 = 0
while (guessing_number_2 != val):
    guessing_number_2 = int(input("Player2: "))
    number_of_tries_2 += 1
    if(val != guessing_number_2):
        if(val > guessing_number_2):
            print("Try a greater number.")
        else:
            print("Try a smaller number.")
    if(val == guessing_number_2):
        print("That's right! Number of tries:", number_of_tries_2)

if(number_of_tries_1 < number_of_tries_2):
        print("")
        print("Winer is Player1")
elif (number_of_tries_1 > number_of_tries_2):
        print("")
        print("Winner is Player2")
else:
        print("")
        print("Don't have winner")
```

```
Player1: 2
Try a greater number.
Player1: 7
Try a smaller number.
Player1: 5
That's right! Number of tries: 3


Player2: 2
Try a greater number.
Player2: 7
Try a smaller number.
Player2: 6
Try a smaller number.
Player2: 5
That's right! Number of tries: 4

Winer is Player1
```

In [ ]: