Assignment 2

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- Exercise 1

In [4]:
```python
x = 100
y = 29
z = (x+y)*3
print(z**2)
```

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- Exercise 2

In [19]:
```python
name = input('Give your name: ')
year_of_birth = input('Give your year of birth: ')
age = input('give your age: ')

age = int(age)

print('password: ', year_of_birth[-2:], name[:3], (age)**2, sep='')
```

```
Give your name: John
Give your year of birth: 1995
give your age: 26
password: 95Joh676
```

- Exercise 3

In [20]:
```python
a = int(input('Give first number: '))
b = int(input('Give second number: '))

if a%2==0 and b%2==0:
    print('Both number are even')
elif a%2!=0 and b%2!=0:
    print('Both number are odd')
else:
    print('One of the number is even')
```

```
Give first number: 5
Give second number: 6
One of the number is even
```

- Exercise 4

In [25]:
```python
n = int(input('Give an integer: '))
sum = 0
for i in range (n):
    sum += i
print('The sum was: ', sum)
```

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

- Exercise 5

In [17]:
```python
import random
random_num = random.randint(0,10)

guessed_num = int(input('Player: '))
tries = 1

while (guessed_num != random_num):
    if(guessed_num > random_num):
        print('Try a smaller number')
    else:
        print('Try a greater number')
    tries += 1
    guessed_num = int(input('Player: '))

print("That'right! Number of tries: ", tries)
```

```
Player: 1
Try a greater number
Player: 3
Try a greater number
Player: 5
Try a greater number
Player: 7
Try a greater number
Player: 9
That'right! Number of tries:  5
```

- Exercise 5 bonus

In [1]:
```python
import random

for i in range(2):

    player = 'Player'+ str((i+1))
    random_num = random.randint(0,10)
    guessed_num = int(input(f'{player} : '))
    tries = 1

    while (guessed_num != random_num):

        if(guessed_num > random_num):
            print('Try a smaller number')
        else:
            print('Try a greater number')

        tries += 1
        guessed_num = int(input(f'{player} : '))

    print("That'right! Number of tries: ", tries)
    print('\n')
```

```
Player1 : 1
Try a greater number
Player1 : 3
Try a greater number
Player1 : 5
Try a greater number
Player1 : 7
Try a greater number
Player1 : 9
That'right! Number of tries:  5


Player2 : 2
Try a greater number
Player2 : 4
Try a greater number
Player2 : 6
Try a greater number
Player2 : 8
Try a greater number
Player2 : 10
That'right! Number of tries:  5
```

In [ ]: