Assignment 2

September 18, 2022

Dong Xubin   ¶

In [1]:

```python
num1 = 100
num2 = 29
value = (num1 + num2) * 3
value = value ** 2
print("The result of the caiculation was:""\n\t",value)
```

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

In [2]:

```python
Name = input("Name:")
Birth_year = str(input("Year of birth:"))
Age = int(input("Age:"))
Age = str(Age ** 2)
print("Password:",Birth_year[-2:] + Name[0:3] + Age)
```

```
Name:xubin
Year of birth:1987
Age:35
Password: 87xub1225
```

In [3]:

```python
a = int(input("First number:"))
b = int(input("Second number:"))
if a%2 == 0 and b%2 == 0:
    print("Both numbers are even")
elif a%2 == 1 and b%2 == 1:
    print("Both numbers are odd")
else:
    print("One of the numbers is even")
```

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

In [4]:

```python
a = int(input("Give an integer:"))
sum = 0
counter = 1
while counter < a:
    sum = sum + counter
    counter += 1
print("The sum was:",sum)
```

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

In [5]:

```python
import random
x = random.randint(0,10)
y = int(input("Player1:"))
count = 1
while y != x:
    if y > x:
        print("Try a smaller number")
    else:
        print("Try a greater number")
    y = int(input("Player1:"))
    count += 1
else:
    print("You are right! number of tries:", count)
```

```
Player1:5
Try a greater number
Player1:6
Try a greater number
Player1:7
Try a greater number
Player1:8
Try a greater number
Player1:9
Try a greater number
Player1:10
You are right! number of tries: 6
```

In [6]:

```python
import random
x = random.randint(0,10)
y1 = int(input("Player1:"))
count1 = 1
while y1 != x:
    if y1 > x:
        print("Try a smaller number")
    else:
        print("Try a greater number")
    y1 = int(input("Player1:"))
    count1 += 1
else:
    print("You are right! number of tries:", count1)
y2 = int(input("Player2:"))
count2 = 1
while y2 != x:
    if y2 > x:
        print("Try a smaller number")
    else:
        print("Try a greater number")
    y2 = int(input("Player2:"))
    count2 += 1
else:
    print("You are right! number of tries:", count2)
if count1 > count2:
    print("winner is player2")
elif count1 < count2:
    print("winner is player1")
```

```
Player1:6
Try a smaller number
Player1:5
Try a smaller number
Player1:4
You are right! number of tries: 3
Player2:8
Try a smaller number
Player2:7
Try a smaller number
Player2:1
Try a greater number
Player2:2
Try a greater number
Player2:3
Try a greater number
Player2:4
You are right! number of tries: 6
winner is player1
```