

# Assignment 2

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## 0.1 Assignment 2

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```
[1]: first_variable = 100
      second_variable = 29
      first_answer = (first_variable+second_variable)
      second_answer = first_answer*3
      final_answer = second_answer ** 2
      print("The result of the calculation was:")
      print("      ", final_answer)
```

The result of the calculation was:  
149769

```
[2]: name = str(input("Name:"))
      year = str(input("Year of birth:"))
      age = int(input("age:"))
      result = str(age**2)
      print('Password:', (year[2:4]+name[0:3]+result))
```

Name: John  
Year of birth: 1995  
age: 26  
Password: 95Joh676

```
[3]: num1 = int(input('First number:', ))
      num2 = int(input('Second number:', ))
      if (num1 + num2) % 2 == 1:
          print("One of the numbers is even")
      elif num1 % 2 == 0 and num2 % 2 == 0:
          print("Both numbers are even")
      else:
          print("Both numbers are odd")
```

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

```
[4]: number = int(input('give an integer:', ))
total = sum(range(0, number))
print('The sum was:', total)
```

give an integer: 5

The sum was: 10

```
[5]: import random
number_to_guess = random.randint(0, 10)
chances = 999
guess_counter = 0
while guess_counter < chances:
    guess_counter += 1
    guess = int(input('Player:', ))
    if guess == number_to_guess:
        print("That's right! Number of tries:", guess_counter)
        break
    elif guess > number_to_guess:
        print('Try a smaller number')
    elif guess < number_to_guess:
        print('Try a higher number')
```

Player: 1

Try a higher number

Player: 6

Try a smaller number

Player: 4

Try a higher number

Player: 5

That's right! Number of tries: 4

```
[6]: import random
number_to_guess = random.randint(0, 10)
chances = 999
guess_counter = 0
while guess_counter < chances:
    guess_counter += 1
    guess = int(input('Player1:', ))
    if guess == number_to_guess:
        print("That's right! Number of tries:", guess_counter)
        print('Winner is Player1!')
```

```

        break
    elif guess > number_to_guess:
        print('Try a smaller number')
    elif guess < number_to_guess:
        print('Try a higher number')
    guess2 = int(input('Player2:', ))
    if guess == number_to_guess:
        print("That's right! Number of tries:", guess_counter)
        print('Winner is Player2!')
        break
    elif guess > number_to_guess:
        print('Try a smaller number')
    elif guess < number_to_guess:
        print('Try a higher number')

```

Player1: 1

Try a higher number

Player2: 4

Try a higher number

Player1: 7

Try a higher number

Player2: 9

Try a higher number

Player1: 10

Try a smaller number

Player2: 9

Try a smaller number

Player1: 8

That's right! Number of tries: 4

Winner is Player1!

[ ]: