

Untitled4

February 8, 2025

0.1 Assignment 2

02/08/2025

Rachata Raktham

```
[4]: # Defining variable names
number_st = 100
number_nd = 29

# The sum then multiply the result by 3
sum_result = number_st + number_nd
multiplied_result = sum_result * 3

# The second exponent of the multiplied_result
final_result = multiplied_result ** 2

# Print the result
print( "The result of the calculation was:" )
print( "      " + str(final_result) )
```

The result of the calculation was:
149769

```
[5]: # Get Inputs
name = input( "Enter your name: " )
year_of_birth = int( input( "Enter your year of birth: " ) )
age = int( input( "Enter your age: " ) )

# Create a the password
last_two_digits = str( year_of_birth ) [ -2: ] # Use only last two digits of
↳ the year of birth
first_three_letters = name[ :3] # Use only first three letters of the name
age_squared = age ** 2 # Second power of the age

# Combine parts
password = last_two_digits + first_three_letters + str( age_squared )

# The result
print( "Name: " + name )
```

```
print( "Year of birth: " + str( year_of_birth ) )
print( "Age: " + str( age ) )
print( "Password: " + password )
```

Enter your name: John
Enter your year of birth: 1995
Enter your age: 26

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

```
[6]: # Get input of two numbers
number_st = int( input( "Enter the first number: " ) )
number_nd = int( input( "Enter the second number: " ) )

# Check both numbers are even
if number_st % 2 == 0 and number_nd % 2 == 0:
    print( "Both numbers are even." )
# Check one of them is even
elif number_st % 2 == 0 or number_nd % 2 == 0:
    print( "One of the numbers is even." )
# Check neither number is even, must be odd
else :
    print( "Both numbers are odd." )
```

Enter the first number: 5
Enter the second number: 6

One of the numbers is even.

```
[7]: # Get input
integer = int (input ( "Give an integer: " ) )

# The sum of all positive numbers from 0 - inputted number
total_sum = sum (range ( integer ) )

# The result
print( "The sum was:", total_sum )
```

Give an integer: 5

The sum was: 10

```
[8]: import random

# Player 1
dealer_number = random.randint( 0 , 10 ) # Dealer generates a random number
↳ between 0 and 10
```

```

print( "\nPlayer 1, it's your turn!" )
player1_attempts = 0

while True :                                # The code inside this loop will run
    ↪repeatedly until its false --> break
    player_guess = int( input( "Your guess: " ) )
    player1_attempts += 1

    if player_guess < dealer_number :
        print( "    Try a greater number." )
    elif player_guess > dealer_number :
        print( "    Try a smaller number." )
    else :
        print("    That's right! Number of tries: " + str( player1_attempts ) )
        break

# Player 2
dealer_number = random.randint( 0, 10 ) # Dealer generates a new random number
    ↪between 0 and 10
print( "\nPlayer 2, it's your turn!" )
player2_attempts = 0

while True :
    player_guess = int( input( "Your guess: " ) )
    player2_attempts += 1

    if player_guess < dealer_number:
        print("    Try a greater number.")
    elif player_guess > dealer_number:
        print("    Try a smaller number.")
    else :
        print("    That's right! Number of tries: " + str( player2_attempts ) )
        break

# Determine the winner
if player1_attempts < player2_attempts :
    print( "\nWinner is Player 1 !" )
elif player2_attempts < player1_attempts :
    print( "\nWinner is Player 2 !" )
else :
    print( "\nIt's a tie !" )

```

Player 1, it's your turn!

Your guess: 2

Try a smaller number.

Your guess: 1

That's right! Number of tries: 2

Player 2, it's your turn!

Your guess: 6

Try a greater number.

Your guess: 9

That's right! Number of tries: 2

It's a tie !

[]: