Assignment 2

February 12, 2024

0.1 Assignement 2

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0.3 Date: 12/02/2024

0.4 Question 1

```
[13]: number_1 = 100
number_2 = 29

result = (number_1 + number_2) * 3

new_result = result ** 2

print("The result of the calculation was:")

print("\t",new_result)
```

The result of the calculation was: 149769

0.5 Question 2

```
[15]: name = input("Name: ")
    date_of_birth = int(input("Year of birth: "))
    age = int(input("Age: "))

    year_numbers = str(date_of_birth)[-2:]

    name_letters = name[:3]

    age_power = str(age ** 2)
```

```
password = year_numbers + name_letters + age_power
print("Password:", password)
```

Name: John

Year of birth: 1995

Age: 26

Password: 95Joh676

0.6 Question 3

```
[17]: 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 or second_number % 2 == 0:
    print("One of the numbers is even.")

else:
    print("Both numbers are odd.")
```

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

0.7 Question 4

```
[19]: number = int(input("Give an integer: "))

total = 0

for i in range(number):
    total = total + i

print("The sum was:", total)
```

Give an integer: 5
The sum was: 10

0.8 Question 5

```
[20]: import random

player1_tries = 0
player2_tries = 0
```

```
target_number = random.randint(0, 10)
tries = 0
while True:
    guess = int(input("Player1: "))
    player1_tries += 1
    if guess == target_number:
        print("That's right! Number of tries:", player1_tries)
    elif guess < target_number:</pre>
        print("Try a greater number.")
    else:
        print("Try a smaller number.")
target_number = random.randint(0, 10)
tries = 0
while True:
    guess = int(input("Player2: "))
    player2_tries += 1
    if guess == target_number:
        print("That's right! Number of tries:", player2_tries)
        break
    elif guess < target_number:</pre>
        print("Try a greater number.")
    else:
        print("Try a smaller number.")
if player1_tries < player2_tries:</pre>
    print("Winner is Player1")
elif player2_tries < player1_tries:</pre>
    print("Winner is Player2")
else:
    print("It's a tie!")
Player1: 3
Try a smaller number.
Player1: 2
Try a smaller number.
Player1: 1
That's right! Number of tries: 3
Player2: 4
That's right! Number of tries: 1
Winner is Player2
```