Assignment 02

February 20, 2023

1 Mayuri Yashodha

1.1 19 February 2023

```
[1]: num1 = 100
     num2 = 29
     result = (num1+num2)*3
     result_squared = result**2
     print("The result of the calculation was:")
     print(" "*4,result_squared)
```

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

```
[2]: name=str(input("enter your name: "))
     Byear=str(input("enter your birth year:"))
     age=int(input("enter your age:"))
     print(Byear[2:]+name[:3]+str(age**2))
```

```
enter your name: John
enter your birth year:1995
enter your age:26
95Joh676
```

```
[1]: 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.
```

```python
[12]: num=int(input("Give an integer: "))
      sum= 0
      for i in range (num):
          if i>= 0:
              sum += i
              print("The sum was:",sum)
```

```
Give an integer: 5
The sum was: 0
The sum was: 1
The sum was: 3
The sum was: 6
The sum was: 10
```

```python
[1]: import random
     number = random.randint(1, 10)

     number_of_guesses = 0
     number = 5
     while number_of_guesses <5:
         guess = int(input("player:"))
         number_of_guesses += 1
         if guess < number:
             print('Try a greater number.')
         if guess > number:
             print('Try a smaller number.')
         if guess == number:

             break
     if guess == number:
         print("That's right ! number of tries:" + str(number_of_guesses)  )
```

```
player:2
Try a greater number.
player:7
Try a smaller number.
player:5
That's right ! number of tries:3
```

```python
[2]: import random

     def numberfind(player_name):
         number = random.randint(1, 10)
         number_of_guesses = 0
         number = 5

         while True:
```

```python
        guess = input("player1: ")
        try:
            guess = int(guess)
        except ValueError:
            print("Invalid input. Please enter a number between 1 and 10")
            continue

        number_of_guesses += 1
        if guess < number:
            print("Try a greater number.")
        elif guess > number:
            print("Try a smaller number.")
        else:
            print(f"That's right! Number of tries: {number_of_guesses}")
            return number_of_guesses

number_of_guesses_player1 = numberfind("Player 1")
print()
number_of_guesses_player2 = numberfind("Player 2")
print()
if number_of_guesses_player1 < number_of_guesses_player2:
    print("Winer is Player 1 ")

elif number_of_guesses_player2 > number_of_guesses_player2:
    print("Winer is Player 2")
```

```
player1: 2
Try a greater number.
player1: 7
Try a smaller number.
player1: 5
That's right! Number of tries: 3

player1: 2
Try a greater number.
player1: 7
Try a smaller number.
player1: 6
Try a smaller number.
player1: 5
That's right! Number of tries: 4

Winer is Player 1
```

[ ]: