

Name - Sanduni Imesha

Date - 09/02/2026

```
In [70]: #1
# two variables
first_variable = 100
second_variable = 29

# sum & multiply
Sum_and_mutiply = (first_variable + second_variable)* 3

# second exponent
second_exponent = Sum_and_mutiply** 2

#Print result
print('The result of calculation was:')
print(f"      {second_exponent}")
```

The result of calculation was:

149769

```
In [30]: #2
#input
name = input ("Enter your first name : ")
age = int(input ("Enter your age: "))
Year_of_birth = int(input ("Enter your year of birth :"))

#password creating
Last_two_of_YOB = str(Year_of_birth) [-2:]
first_3_litters_of_NAME = str(name [:3])
Second_power_of_age = str(age**2)

#password
password = Last_two_of_YOB + first_3_litters_of_NAME + Second_power_of_age

#Results
print ("Name :" + str(name))
print ("Age :" + str("age"))
print ("Year of birth : " + str(Year_of_birth))
print ("Password :" + str(password))
```

Name :Imesha
 Age :age
 Year of birth : 1998
 Password :98Ime784

```
In [36]: #3
# input numbers
first_number = int(input("Enter first number: "))
second_number = int(input("Enter second number: "))

# Check if numbers are even or odd
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.")
```

Both numbers are even.

In [33]: #4

```
# input number  
interger = int(input("Give an integer: "))  
  
# Calculate the sum  
total_sum = 0  
for numbers in range(interger + 1):  
    total_sum += numbers  
  
# Display the result  
print("The sum was: " + str(total_sum))
```

The sum was: 6

In [67]: #5

```
import random  
  
# Generate a random number between 0 and 10  
secret_number = random.randint(0, 10)  
tries = 0  
# Game Loop  
while True:  
    # Get player's guess  
    guess = int(input("Player: "))  
    tries += 1  
  
    # Check if the guess is correct  
    if guess == secret_number:  
        print(f"That's right! Number of tries: {tries}")  
        break  
    elif guess < secret_number:  
        print("Try a greater number.")  
    else:  
        print("Try a smaller number.")
```

Try a greater number.

Try a smaller number.

That's right! Number of tries: 3

In [71]: # Two players version

```
import random  
  
def play_game(player_name):  
    secret_number = random.randint(0, 10)  
    tries = 0  
    while True:  
        guess = int(input(f"{player_name}: "))  
        tries += 1  
  
        if guess == secret_number:
```

```
        print(f"That's right! Number of tries: {tries}")
        return tries
    elif guess < secret_number:
        print("Try a greater number.")
    else:
        print("Try a smaller number.")

# Player 1's turn
player1_tries = play_game("Player1")

# Player 2's turn
player2_tries = play_game("Player2")

# Determine and announce the winner
print("\n**** GAME RESULTS ****")
print(f"Player1 tries: {player1_tries}")
print(f"Player2 tries: {player2_tries}")

if player1_tries < player2_tries:
    print("Player1 wins!")
elif player2_tries < player1_tries:
    print("Player2 wins!")
else:
    print("It's a tie!")
```

Try a smaller number.
Try a smaller number.
That's right! Number of tries: 3
Try a smaller number.
That's right! Number of tries: 2

**** GAME RESULTS ****
Player1 tries: 3
Player2 tries: 2
Player2 wins!

In []: