

```
In [ ]: name: Tahrin Tasnim  
date: 10.02.2025
```

Problem Solution:1

```
In [18]: number1=100  
number2=29  
sum_result=number1+number2  
multiplied_result=sum_result*3  
final_result=multiplied_result**2  
print("The result of the calculation was:")  
print(" ", final_result)
```

The result of the calculation was:
149769

Problem Solution: 2

```
In [7]: name=input("Name: ")  
year_of_birth=int(input("Year of birth: "))  
age=int(input("Age: "))  
last_two_digit_year=str(year_of_birth)[-2:]  
first_three_letter_name=name[:3]  
age_power_value=str(age**2)  
password=last_two_digit_year+first_three_letter_name+age_power_value  
print("Password:", password)
```

Password: 95Joh676

Problem Solution: 3

```
In [9]: 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")
```

One of the numbers is even

```
In [13]: user_input=int(input("Give an integer: "))  
total_sum=sum(range(user_input))  
print("The sum was: ", total_sum)
```

The sum was: 10

Problem Solution: 4

```
In [ ]: import random  
dealer_number=random.randint(0,10)  
tries=0  
while True:  
    player_guess=int(input("Player: "))  
    tries+=1  
    if player_guess==dealer_number:  
        print("That's right! Number of tries", tries)  
  
    elif player_guess<dealer_number:  
        print("Try a greater number.")  
    else:  
        print("Try a smaller number.")
```

Try a greater number.
Try a greater number.
Try a greater number.
That's right! Number of tries 4

Problem Solution: 5

```
In [21]: import random  
def guessing_game(player_name):  
    dealer_number=random.randint(0,10)  
    tries=0  
    print(f"{player_name}'s turn:")  
    while True:  
        player_guess=int(input(f"{player_name}: "))  
        tries+=1  
  
        if player_guess==dealer_number:  
            print("That's right! Number of tries: ", tries)  
            return tries  
        elif player_guess<dealer_number:  
            print("Try a greater number.")  
        else:  
            print("Try a smaller number.")  
  
player1_tries=guessing_game("Player1")  
player2_tries=guessing_game("Player2")  
if player1_tries<player2_tries:  
    print("Player1 wins!")  
  
elif player2_tries<player1_tries:  
    print("Player2 wins!")  
  
else:  
    print("It's a tie!")
```

Player1's turn:
Try a greater number.
Try a greater number.
Try a greater number.
That's right! Number of tries: 4
Player2's turn:
Try a smaller number.
Try a greater number.

