TASK-7 - Python Functions 17/9/25

Train ticket Reservation:

A train has 100 seats. write a function that checks if a booking is possible given seats left tickets requested.

AIM: To write a program for the function that checks if a booking is possible given seats left tickets requested.

Algorithm:

1. start
2. Define function book_tickets
3. input - total available seats
4. number of tickets the passenger wants
5. Check if booking is possible
6. Display Booking succesful else Display Not Enough seats
7. stop

✓

Result: Thus the, booking of possible given seats requested has been Executed successfully.

Program

```
def book_tickets (seats_left, tickets_requested):
    if tickets_requested <= seats_left:
        return f"Booking successful! seats left:
{seats_left - tickets_requested}"
    else:
        return "Not Enough seats available."
```

Input

```
Print (book_tickets (20,5))
```

output:

```
# Booking successful!
Seats left: 15
Print (book_tickets (3,5))
# Not Enough seats available
```

student Rank Finder.

AIM: To write a function that finds the student with highest marks.

Algorithm

1. start
2. Define function top_student (marks)
3. max() function to find highest marks.
4. Return the name of student with maximum mark.
5. call function of students & marks
6. Display the result
7. stop.

Result: Thus, the function finds student with highest marks has been Executed successfully.

Program

```
def top_student (marks):
    return max(marks, key=marks.get)
students = {"Arun": 85, "Meera": 92, "Kumar": 78}
Print (top_student (students))
```

Output:

```
# Meera
```

Program

```
def atm_withdraw (balance, amount):
    if amount <= balance:
        return f"withdrawl Successful! New balance:
{balance - amount}"
    else:
        return "Insufficient funds"
```

Input / output:

```
Print (atm_withdraw (5000, 2000))  # withdrawl
Successfull! New balance: 3000
Print (atm_withdrawl (3000, 5000))
```

Insufficient funds

ATM withdrawl

AIM: To write a function that simulates an ATM withdrawl and returns the new balance. or an error message.

Algorithm

1. start
2. Define a function atm_withdraw (balance, amount).
3. input:
   - balance - aount account balance.
   - Amount — withdrawl amount requested
4. Check Condition:
   - if amount <= balance
   - Display "withdrawl successful! New balance
5. else Display insufficient funds
6. Print the result
7. stop

VELTECH	
EX No.	1
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	5
SIGN WITH DATE	20

Result: Hence, the Program of ATM withdrawl and returns has been verified and Executed succesfully.