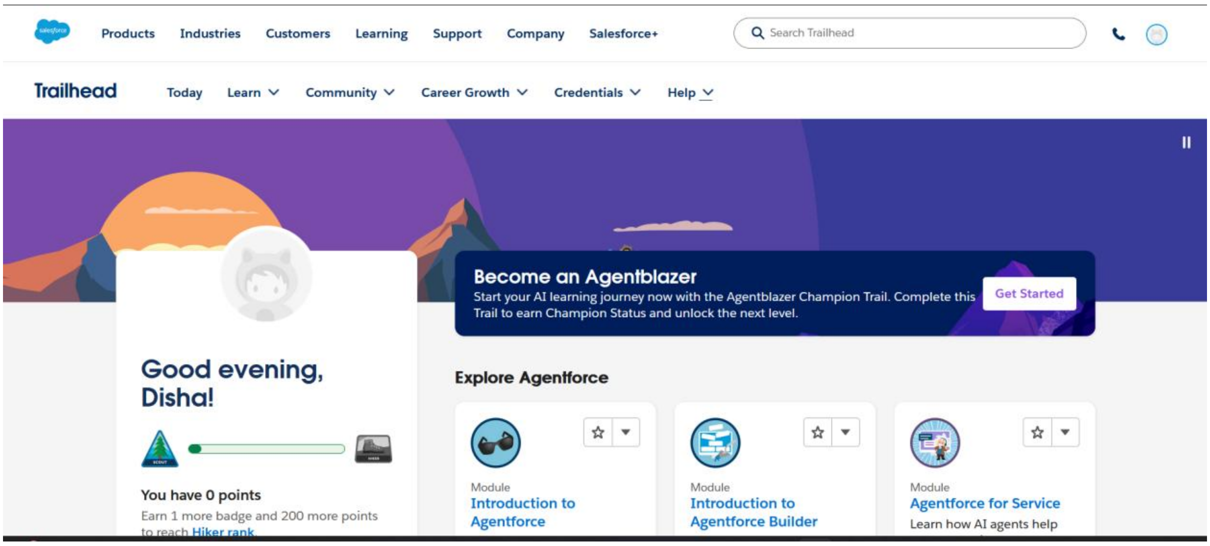
19.Creating an application in salesForce.com using Apex Programming Language

.Print message “Welcome to Apex Programming Language of sale force Platform”.

Step1 :- Create account and login

https://trailhead.salesforce.com/today



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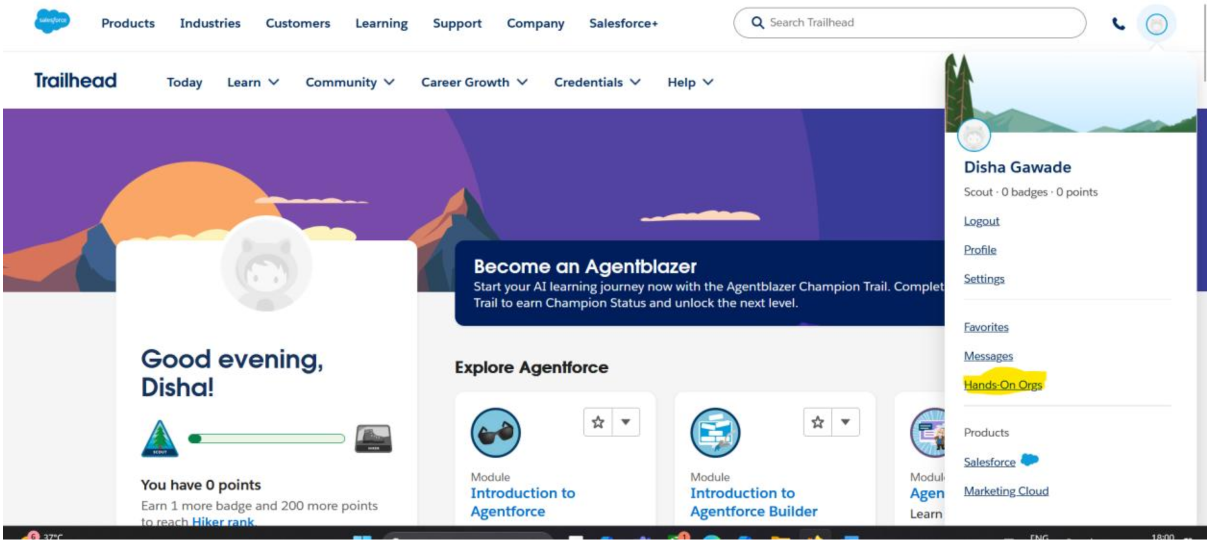
Good evening, Disha!

You have 0 points

Earn 1 more badge and 200 more points to reach Hiker rank

Learn how AI agents help



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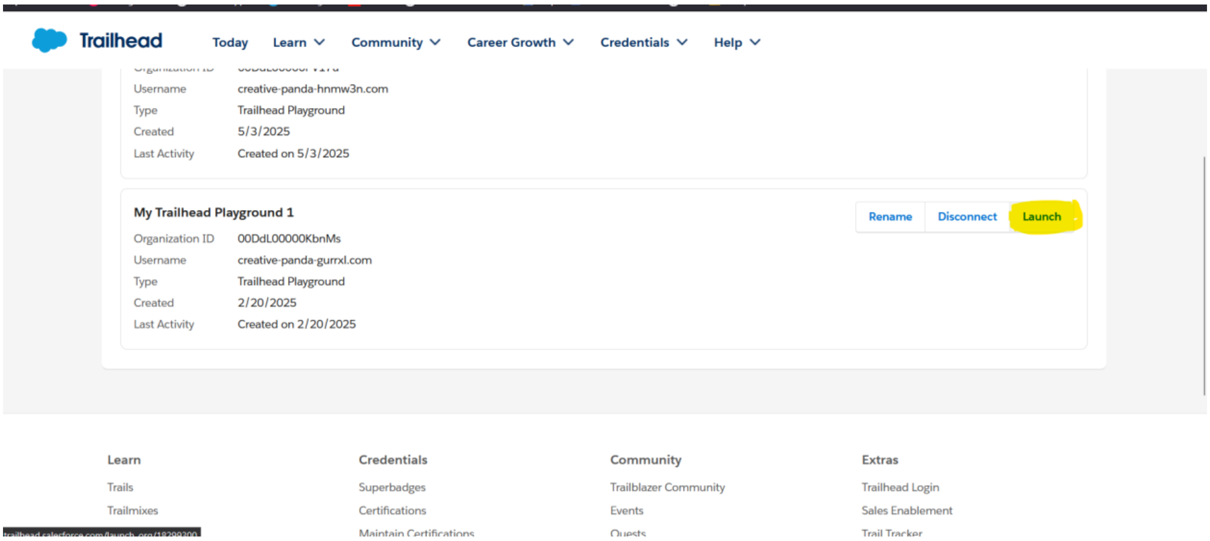
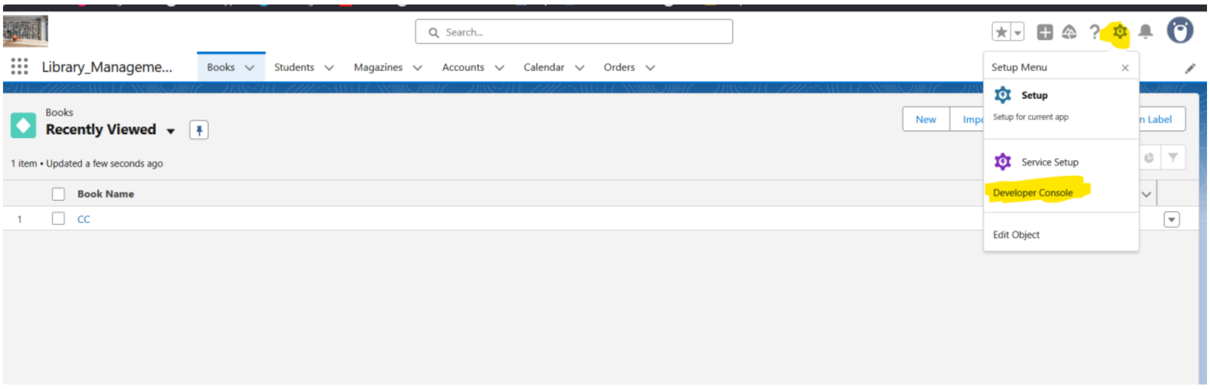


Username	creative-panda-hnmw3n.com
Type	Trailhead Playground
Created	5/3/2025
Last Activity	Created on 5/3/2025

My Trailhead Playground 1

Organization ID	00DdL00000KbnMs
Username	creative-panda-gurrxl.com
Type	Trailhead Playground
Created	2/20/2025
Last Activity	Created on 2/20/2025



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1 item • Updated a few seconds ago

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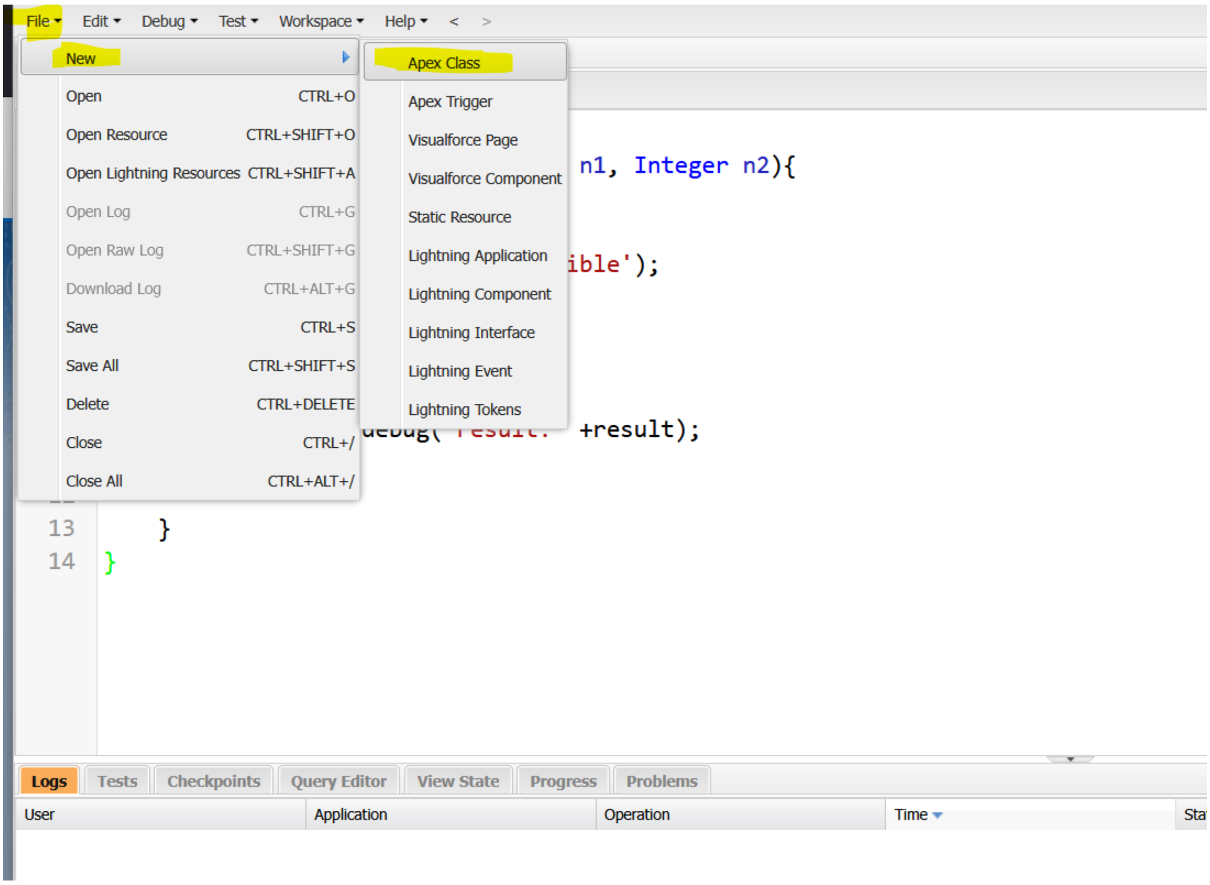
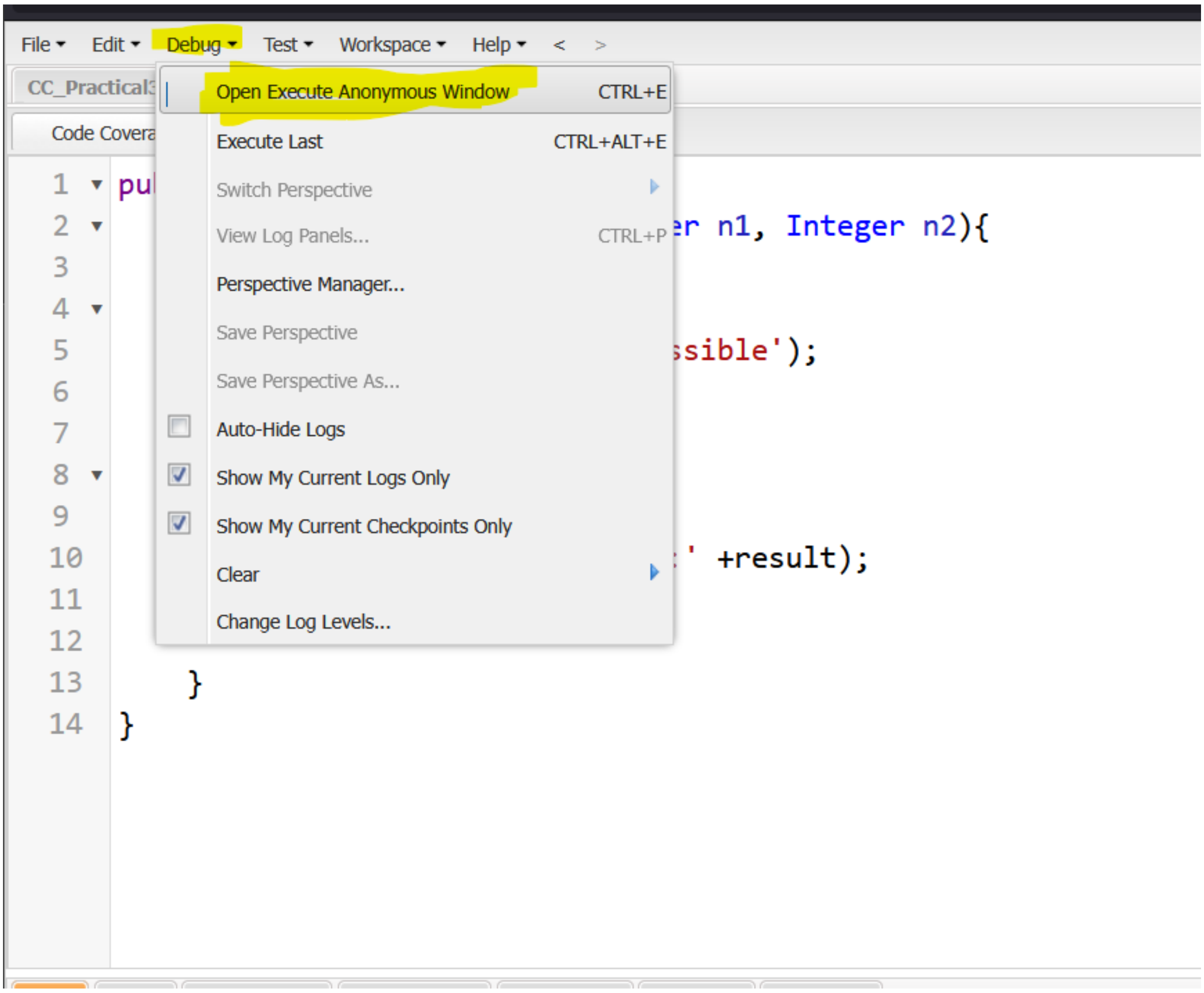
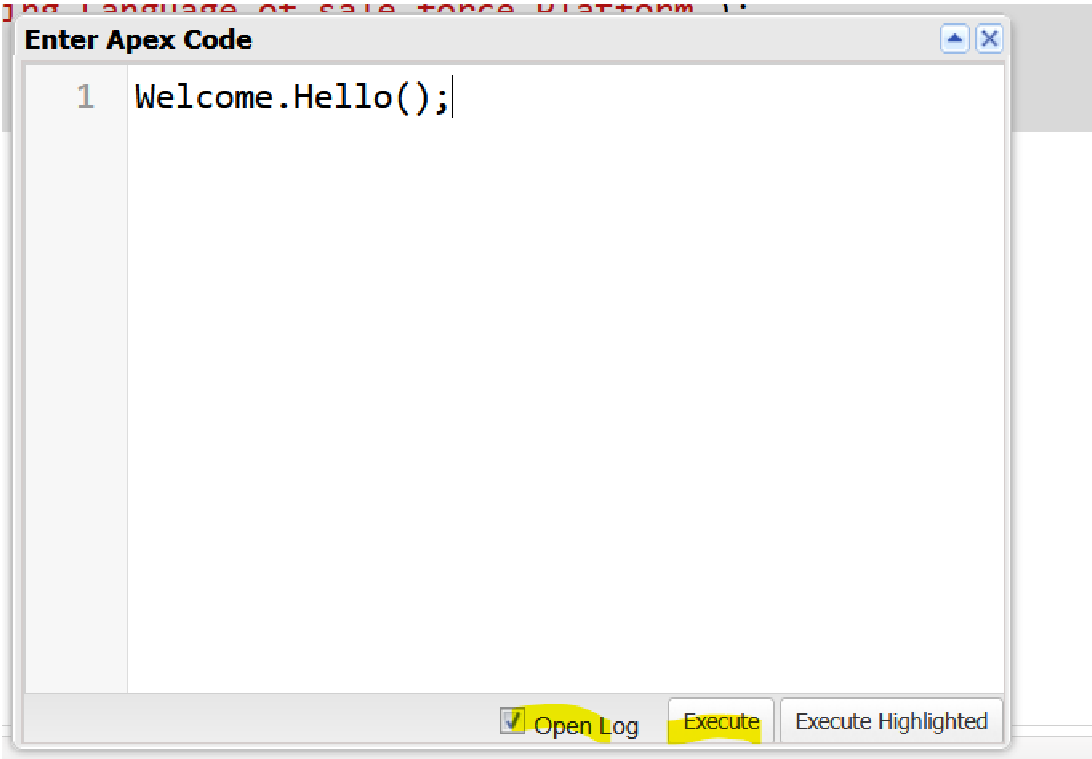
1	CC



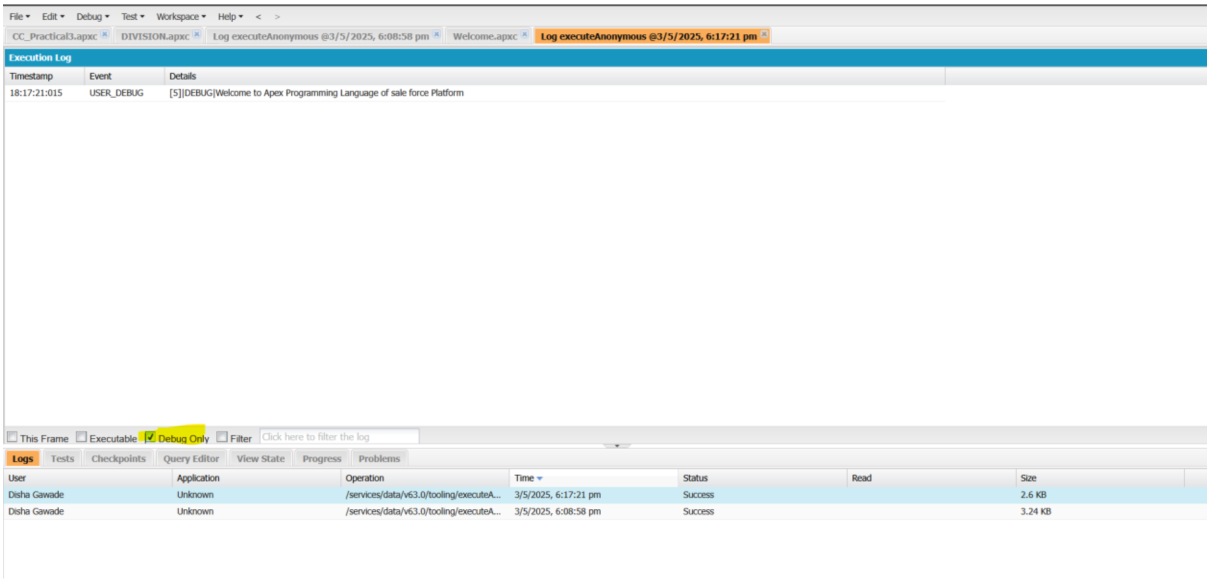
```
n1, Integer n2){
ible');
debug('result: ' +result);
    }
}
```

```
public class MultiplesOfTen {
    public static void displayTable() {
        for (Integer i = 1; i <= 10; i++) {
            Integer result = 10 * i;
            System.debug('5 x ' + i + ' = ' + result);
        }
    }
}
```





```
Welcome.Hello();
```


File ▾ Edit ▾ Debug ▾ Test ▾ Workspace ▾ Help ▾ < >
CC_Practical3.apxc
DIVISION.apxc
Log executeAnonymous @3/5/2025, 6:08:58 pm
Welcome.apxc
Log executeAnonymous @3/5/2025, 6:17:21 pm
Execution Log
□ This Frame □ Executable ☑ Debug Only □ Filter
Click here to filter the log
Logs
Tests
Checkpoints
Query Editor
View State
Progress
Problems

Timestamp	Event	Details
18:17:21:015	USER_DEBUG	[5]|DEBUG|Welcome to Apex Programming Language of sale force Platform

User	Application	Operation	Time	Status	Read	Size
Disha Gawade	Unknown	/services/data/v63.0/tooling/executeA...	3/5/2025, 6:17:21 pm	Success		2.6 KB
Disha Gawade	Unknown	/services/data/v63.0/tooling/executeA...	3/5/2025, 6:08:58 pm	Success		3.24 KB

Line-by-Line Explanation of the Code

apex

public class MultiplesOfFive { // Defines a public Apex class named "MultiplesOfFive".

public static void displayTable() { // Declares a static method "displayTable" that returns nothing (void).

for (Integer i = 1; i <= 10; i++) { // Starts a loop where "i" iterates from 1 to 10.

```
      Integer result = 10 * i; // Calculates the product of 10 and the loop variable "i".
      System.debug('5 x ' + i + ' = ' + result); // Logs a string to the debug output (e.g., "5 x 1 = 10").
    }
  }
}
```

Key Concepts Used in the Code

1. Apex Class

Purpose: Encapsulates logic related to generating a multiplication table.

Code: public class MultiplesOfFive { ... }

Details: The class is declared as public, making it accessible across the Salesforce org.

2. Static Method

Purpose: Allows calling the method without creating an instance of the class.

Code: public static void displayTable() { ... }

Usage: Invoked directly via MultiplesOfFive.displayTable().

3. For Loop

Purpose: Iterates over a fixed range (1 to 10).

Code: for (Integer i = 1; i <= 10; i++) { ... }

Details: i is an Integer variable that increments from 1 to 10.

4. Arithmetic Operations

Purpose: Computes the product of 10 and i.

Code: Integer result = 10 * i;

Issue: The output shows "5 x i = result", but the calculation uses 10, not 5. This is likely a typo.

5. String Concatenation

Purpose: Combines static text and variables into a debug message.

Code: System.debug('5 x ' + i + ' = ' + result);

Output: Logs lines like 5 x 1 = 10, which is mathematically incorrect (should be 10 x 1 = 10 or 5 x i = 5i).

6. Debugging

Purpose: Outputs results to the Salesforce debug logs.

Code: System.debug(...)

How to View: Open Debug Logs in the Salesforce Developer Console.

Data Types in Apex

Apex supports both primitive and composite data types. Here’s a breakdown:

1. Primitive Data Types

These are basic types built into the language:

Data Type	Description & Example

Integer Whole numbers (e.g., Integer num = 10;).

Double Decimal numbers (e.g., Double price = 19.99;).

Long Large integers (e.g., Long bigNumber = 2147483648L;).

String Text (e.g., String name = 'Salesforce';).

Boolean true or false (e.g., Boolean isActive = true;).

Date Date without time (e.g., Date today = Date.today();).

Datetime Date and time (e.g., Datetime now = Datetime.now();).

Time Time without a date (e.g., Time meetingTime = Time.newInstance(14, 30, 0, 0);).

ID Salesforce record ID (e.g., Id accountId = '001xx000003DGb0';).

Blob Binary data (e.g., Blob fileData = Blob.valueOf('Hello World');).

Object Generic type (e.g., Object obj = 10; // Can hold any data type).