

<h3>Apex Application</h3> <p>Create Web Service by integrating other systems</p> <p>Create email services for an email blast or Email Setup</p> <p>Perform Complex Validation over multiple objects at the same time and also custom validation implementation.</p> <p>Create complex business processes that are not supported by existing workflow functionality or Flows</p> <p>Create custom transactional logic</p> <p>Perform some Logic when a record is modified.</p> <p>Working Structure of Apex</p> <p>Flow of Action</p> <p>Developer Action</p> <p>End User Action</p>	<h3>String Examples</h3> <pre>public Boolean equalsIgnoreCase(String stringtocompare) String myString1 = 'MySTRING'; String myString2 = 'MyString'; Boolean result = myString2.equalsIgnoreCase(myString1); System.debug("Value of equal will be true as they are same and result is : "+result);</pre>	<h3>Understanding the Data Types</h3> <p>Apex Supports the Followings data types</p> <p>Primitive(Integer, Double, Long, Date, Datetime, String, ID, or Boolean)</p> <p>Collections(Lists, Sets and Maps)</p> <p>sObject</p> <p>Enums</p> <p>Classes, Objects and Interfaces</p>	<h3>Apex - Loops</h3> <p>Loop Type & Description</p> <p>For loop : This loop performs a set of statements for each item In a set of records.</p> <p>SOQL for Loop: Execute a sequence of statements directly over the returned set of SOQL query.</p> <p>Java-Like for Loop : Execute a sequence of statements in traditional Java-like syntax</p>
<h3>Understanding the Apex Syntax</h3> <p>Variable Decalation</p> <p>SOQL Query</p> <p>Loop Statement</p> <p>Flow Control Statement</p> <p>DML Statement</p>	<h3>Apex - String</h3> <p>String in Apex: is any set of character with no character limit.</p> <p>String companyName = 'ABC';</p> <p>String Methods</p> <p>Syntax</p> <pre>public Boolean contains(String substring)</pre> <p>Example</p> <pre>String myProductName1 = 'HCL' ; String myProductName2 = 'NAHCL' ; Boolean result = myProduct-Name2.contains(myProduct-Name1); System.debug("O/P will be true as it contains the string and Output is :'+result) ;</pre>	<h3>Apex - Enviroment</h3> <p>Apex Code Development Tools</p> <p>Force.com Developer Console</p> <p>Froce.com IDE</p> <p>Code Editor in the Salesforce use Interface</p>	<h3>Conti...</h3> <p>While loop: Repeats a statement or group of statements while a given condition is true. it tests the condition before executing the loop body.</p> <p>do...while loop</p> <p>Like a while statement, except that it tests the condition at the end of the loop body.</p>
<h3>Apex</h3> <p>What is Apex</p> <p>Apex is a strongly typed, object-oriented Programming language that allows developers to execute the flow and transaction control statements on the force.com platform server in conjunction with calls to the Froce.com API.</p> <p>Features of Apex as a language Integrated</p> <p>Java-like syntax and easy to use</p> <p>Strongly Integrated with Data</p> <p>Strongly Typed</p> <p>Multitenant Environent</p> <p>Upgrades Automatically</p>	<h3>Apex - Variables</h3> <p>Declaring Variables</p> <pre>String StrName = 'My String'; Integer myInterger = 1; Boolean mtBoolean = true;</pre> <p>Apex Variables are case-Inse-nsitive(you cannot declare a variable two times)</p> <pre>Integer m = 100; For (Integer l = 0; l < 0; l++){ integer m = 1; Scope of Variables List<string> Products = new List<strings>();</pre>	<h3>Apex - Arrays</h3> <p>Syntax</p> <pre><String> [] arrayOfProducts = new List<String>();</pre> <p>Ex:</p> <pre>String [] arrayofproduts = new List <String>(); //Adding elements in arrays arrayOfProducts.add('HCL'); arrayOfProducts.add("H2SO4");</pre> <p>For (Integer i=0; l<arrayOfPro-ducts.size(); i++){</p> <pre>System.debug("Value In Array :'+arrayOfProducts[l]);}</pre> <p>Accessing array element by using index</p>	<h3>Apex - Collections</h3> <p>Lists</p> <p>Ex:</p> <pre>List<String> ListOfCities = new List<String>(); System.debug("Value of ListOf-Cities :'+ListOfCities);</pre> <p>List <account> AccountTo-Delete = new List<account> ();</p> <pre>System.debug("Value Of ListOf-Cities' +AccountToDelete);</pre> <p>There is a limitation on heap size.</p> <p>Methods For Lists:</p> <pre>size() add() get() clear() set()</pre>
<h3>More String Examples</h3>		<h3>Apex - Constants</h3> <p>Constants are variables which donot change their values</p> <p>Ex:</p> <pre>public class CustomerOperati-onClass{ Static final Double regularCu-tomerDiscount = 0.1;</pre>	<h3>Sets and Method for Sets</h3>

```

public Boolean equalsIgnoreCase(String stringtoCompare)
String MyString1 = 'MySTRING';
String MyString2 = 'MyString';
Boolean result = myString2.equalsIgnoreCase(myString1);
System.debug(' your message :'+result);

```

```

Products.add(HCL);
}

```

Primitive Data Types

Integer
Integer X = 1000;
System.debug(' value of x Variables: ' +x);

Boolean
Boolean x;
x = true;
System.debug(' ' +x);

Date
Date x = date.today();

Long/String
Long x = 231321265465444-5643;

Object
Account x = new Account (Name ='Test AC');

```

Static Double finalPrice = 0;
public static Double provideDiscount (Integer price){
// calculate the Discount
finalPrice = price - price * regularCustomerDiscount;
return finalPrice;
}
}

```

OUTPUT

```

Double finalPrice = CustomerOperationClass.provideDiscount(-100);
System.debug('FinalPrice :'+finalPrice);

```

Apex - Decision Making

Decision-making structures require that the programmer specify one or more conditions to be evaluated.

```

Set<string> ProductSet = new Set<string>{'Phenol', 'Benzene', 'H2SO4'};
ProductSet.add('HCL');
System.debug('Set with New Value :'+ProductSet);

ProductSet.remove('HCL');
ProductSet.contains('HCL');

```

Maps

```

Map<string, string> ProductCodeToProductName = New Map<string, string> {'1000' =>'HCL', '1001' =>'H2SO4'};

```



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Page 1 of 2.

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