* Becoming expert in core java
  + Focus on improving logical thinking skills
  + Focus on writing more number of programs
* What is program
  + Takes data process it , and send output
  + I/P or O/P can be optional
  + Data comes from different sources like file , console , DB , Browser/Network
  + Program will consist of objects thats why they are called OOP languages ()
* Install Java
* WAP to print your name (**single class , single method**)
  + Check installation
  + Write .java file
  + Compile
  + Execute
  + System.out.println(“”) / print / \n differences , comments
* WAP to print

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* From now onwards we will learn lot of concepts using only one class and main method.
* WAP to find sum of two numbers and print them on console.
  + Read data and put it memory
  + Process data in memory
  + Send output from memory
  + Above program will explain what is **data type** and **variable** and how memory locations are created , **operators** , **comments**
* Primitive data types - boolean, byte, char, double, float,

int, long, and short

* WAP to swap two numbers
* Operators
  + + , \* , % / - , ++ , -- , + can be used for strings also
  + Relation operators like > , >= , < , <= , == , !=
  + Logical operators && , || , !
* Declaring a variable and assigning a variable
* Introduction to IDE
* WAP to print your name 100 times -- for loop;
* WAP to print numbers from 1 to 100
* WAP to print numbers in reverse
* WAP to print sum of 1000 numbers
* For loop syntax and its usage is demonstrated by above programs
* If else statement we can make some statements execution as optional using if else statements
* WAP to print below series 123451234512345 .... 100times.
* WAP to print \*\*\*\*\*\*\*\*\*\*\*

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* if (<test>) {

<statement>;

<statement>;

...

<statement>;

}

* test can be written using relational operators and && , || , !
* if (<test>) {

<statement>;

<statement>;

...

<statement>;

} else {

<statement>;

...

<statement>;

<statement>;

}

* if {}

esleif(){

}else{

}

* program to find greatest among three numbers
* program to find middle number among three numbers
* Break , continue
* WAP to print 1 to 100 ignoring 5, 13 ,78
* WAp to find out if given number is prime number or not
* WAP to find out prime numbers in 1000 numbers
* While
* Do While
* Switch
* Arrays - Creation , adding data , removing data , iterating array
* Sum of 10 numbers in array
* Smallest in an array
* Biggest in array
* TO find out average temperature in array
* Check if two arrays are equal or not
* How to reverse an array

-----------------------------------------Part One is Done --------------------------------------

Class ; Before understanding what is class try to understand what class contains and how to create it

Class will have three parts : Constructor , method , variables

Methods :

Variables(instance variables vs local variables):

Class = variables + methods

Methods and variables are encapsulated in class

We create objects for class to access its components.

Constaructor :While creating objects we can populate state using variables

Playing with your own classes and Objects

Playing with core API

**Programs**

* WAP to print your name in console
* WAP to print

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* WAP to print to print below pattern

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* WAP to find sum of two numbers
* WAP to print your name 100 times
* WAP to print numbers from 1 to 100
* WAP to print numbers in reverse
* WAP to print sum of 1000 numbers
* WAP to print below series 123451234512345 .... 100times.
* WAP to print \*\*\*\*\*\*\*\*\*\*\*

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* program to find greatest among three numbers
* program to find 2nd smallest among 4 numbers
* print grade based on score
* find out if a given number is prime numer or not