**Notes: First you prepare how to write a code for syntax and write a code**

**Java: (day one)**

Steps to install java

Steps to install eclipse

Steps to create workspace

Steps to create project

File -> Project

We call Project is program

How to create .java file/class

Project -> new class and give extension .java

Class Employee {

}

how to create packages and what is best way to give name

From solution explorer, select project, right click and select package

Ex: companyname.projectname.foldername (this is common naming standard)

**what is main method will do?**

Main method is starting point of program

**What is variable?**

It will store the value in memory

To create variable we specify

Variablename datatype;

**what is data type and different data types**

It will represent what type of data

Int

Double

Float

**creating property/data members**: we create properties at class level

int salary

String firstname

**creating method with void**: we write methods in

void

**creating method with void and parameter**

**package** nih;

**public** **class** voidparameter {

**public** **static** **void** main(String[] args) {

//System.out.println("The sum of the integers is " +sum);

nihith n=**new** nihith();

n.nihith();

}

**public** **static** **class** nihith{

**int** a =1;

**int** b=9;

**int** sum=(a+b);

**public** **void** nihith(){

System.***out***.println("The sum of the integers is " +sum);

}

}

}

**creating method with return data type**

**package** nih;

**public** **class** returndata {

**public** **static** **void** main(String[] args)

{

*nihith*(77,50);

*nihith*(20,30);

}

**public** **static** **int** nihith (**int** a,**int** b)

{

System.***out***.println(a+b);

**return** (a+b);

}

}

**creating method with return data type and parameter**

**package** nih;

**public** **class** returndata {

**public** **static** **void** main(String[] args)

{

*nihith*(77,50);

*nihith*(20,30);

}

**public** **static** **int** nihith (**int** a,**int** b)

{

System.***out***.println(a+b);

**return** (a+b);

}

}

**creating variable**

**creating static property All instances shared the value http://crunchify.com/java-static-methods-variables-static-block-and-class-with-example/**

**creating static method**

**http://crunchify.com/java-static-methods-variables-static-block-and-class-with-example/**

**creating object**

**calling method with no return**

**package** nih;

**public** **class** returndata {

**public** **static** **void** main(String[] args)

{

*nihith*(771,50);

*nihith*(20,30);

}

**public** **static** **void** nihith (**int** a,**int** b)

{

System.***out***.println(a+b);

}

}

**calling method with no return and parameter**

**package** nih;

**public** **class** returndata {

**public** **static** **void** main(String[] args)

{

*nihith*(771,50);

*nihith*(20,30);

}

**public** **static** **void** nihith (**int** a,**int** b)

{

System.***out***.println(a+b);

}

}

**calling method with return and no parameter**

**package** nih;

**public** **class** data1 {

**public** **static** **void** main(String[] args) {

nihith vish=**new** nihith();

vish.data1();

//System.out.println(c);

}

**public** **static** **class** nihith{

**public** **int** data1(){

**int** a=2;

**int** b=20;

**int** c=a+b;

System.***out***.println(c);

**return** (c);

}

}

}

**calling method with return and parameter**

**package** nih;

**public** **class** data1 {

**public** **static** **void** main(String[] args) {

// **TODO** Auto-generated method stub

**int** a=100+100;

System.***out***.println(a);

}

**public** **static** **int** data1(**int** a){

System.***out***.println(a);

**return** (a);

}

}

**calling method with return and storing the return data**

**package** nih;

**public** **class** data1 {

**public** **static** **void** main(String[] args)

{

*nihith*("nihithmandava");

*nihith*("welcomes you");

**int** sum=*data1*(50,90);

System.***out***.println(sum);

**int** sum1=*data1*(500,10);

System.***out***.println(sum1);

}

**public** **static** **void** nihith(String name)

{

System.***out***.println("Hello " + name);

}

**public** **static** **int** data1 (**int** a,**int** b)

{

**return** (a+b);

}

}

**calling static method**

**using static property**

**Java: Day2**

**create classes under multiple packages**

**calling classes under different packages**

**write code to handle exceptions with try/catch/finally**

**what is final keyword**

**package Lesson1;**

**public class Keyword {**

**public static void main(String[] args) {**

**// TODO Auto-generated method stub**

**hell hel=new hell();**

**hel.number=10;**

**//System.out.println(hel);**

**}**

**}**

**package Lesson1;**

**public class hell {**

**public static int number;**

**hell(){**

**int number=0;**

**while(number<=15){**

**System.out.println(number);**

**number++;**

**}**

**}**

**}**

**write code for interface and create class to implement that interface**

**write code for creating abstract class**

**implement method overloading**

**package** nih;

**public** **class** BoABank {

**public** **static** **void** main(String[] args) {

System.***out***.println(*Add*(133333333,3));

System.***out***.println(*Add*(1.2,3.2));

System.***out***.println(*Add*("Nihith"," mandava"));

}

**public** **static** **int** Add (**int** a,**int** b){

**return** (a+b);

}

**public** **static** Double Add (Double a,Double b){

**return**(a+b);

}

**public** **static** String Add (String a,String b){

**return**(a+b);

}

}

**implement method overriding**

**package** Lesson1;

**public** **class** overriding {

**public** **static** **void** main(String[] args) {

Bank abc=**new** Bank\_ABC();

System.out.println(abc.getInterestRate());

}

}

**package Lesson1;**

**public class Bank {**

**int getInterestRate(){**

**return 0 ;**

**}**

**}**

**package Lesson1;**

**public class Bank\_ABC extends Bank{**

**int getInterestRate(){**

**return 9;**

**}**

**}**

**implementing polymorphism**

**package** Lesson1;

**public** **class** polymorphism {

**public** **static** **void** main(String[] args) {

Bank abc=**new** Bank\_ABC();

Bank def=**new** Bank\_DEF();

Bank xyz=**new** Bank\_XYZ();

Bank ghi=**new** Bank\_GHI();

System.out.println(abc.getInterestRate());

System.out.println(def.getInterestRate());

System.out.println(xyz.getInterestRate());

System.out.println(ghi.getInterestRate());

}

}

**package Lesson1;**

**public class Bank\_ABC extends Bank{**

**int getInterestRate(){**

**return 9;**

**}**

**}**

**package Lesson1;**

**public class Bank\_DEF extends Bank{**

**int getInterestRate(){**

**return 12;**

**}**

**}**

**package Lesson1;**

**public class Bank\_GHI extends Bank{**

**int getInterestRate(){**

**return 6;**

**}**

**}**

**package Lesson1;**

**public class Bank\_XYZ extends Bank{**

**int getInterestRate(){**

**return 22;**

**}**

**}**

**package Lesson1;**

**public class Bank {**

**int getInterestRate(){**

**return 0 ;**

**}**

**}**

**implementing interface**

**package** nih;

**public** **class** BoABank {

**public** **static** **void** main(String[] args) {

}

}

**package** nihith;

**public** **interface** bank {

**int** getinterestrate();

}

**package** nihith;

**public** **class** bank\_abc **implements** bank{

**public** **int** getinterestrate(){yes.

**return** 6;

}

}