**Session 2**

1. **Create a student class using student properties and create and execute a method without a constructor.**

**Code:**

**public** **class** Student {

**public** **static** **void** stud() {

**int** stdid=123;

String stdName= "John";

System.***out***.println("Student id : " +stdid);

System.***out***.println("Student id : " +stdName);

}

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

Student.*stud*();

}

}

**Output:**

Student id : 123

Student id : John

1. **Create a Product class with constructor (observe the difference with or without constructor)**

**Code:**

**public** **class** Product {

**int** age;

String name;

**public** Product(){

age= 45;

name="abc";

}

**void** Prod() {

age = 12;

name = "xyz";

}

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

Product p = **new** Product();

System.***out***.println(p.age);

System.***out***.println(p.name);

}

}

**Output:**

45

abc

1. **Create a Student class without parameters and with parameters by using constructor.**

**Code:**

**public** **class** Student1 {

**int** stdid = 163;

String stdname = "sj";

**public** Student1() {

System.***out***.println("Calling with default stdid : " +stdid);

System.***out***.println("Calling with default stdname : " +stdname);

}

**public** Student1(**int** id, String name){

**int** stdid = id;

String stdname = name;

System.***out***.println("Calling with parameters stdid : " +stdid);

System.***out***.println("Calling with parameters stdname : " +stdname);

}

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

Student1 s1 = **new** Student1();

Student1 s2 = **new** Student1(12,"Sweety Jain");

}

}

**Output:**

Calling with default stdid : 163

Calling with default stdname : sj

Calling with parameters stdid : 12

Calling with parameters stdname : Sweety Jain

1. **Create a Calculator class and create static methods with or without return type.**

**Code:**

**public** **class** Calculator {

**public** **static** **void** multi() {

System.***out***.println("Without return type");

}

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

System.***out***.println("With return type");

**int** c= a+b;

**return** c;

}

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

Calculator.*multi*();

System.***out***.println(Calculator.*add*(2, 3));

}

}

**Output:**

Without return type

With return type

5

1. **Create a Calculator class and create instance methods with or without return type.**

**Code:**

**public** **class** Calculator {

**public** **void** multi() {

System.***out***.println("Without return type");

}

**public** **int** add(**int** a, **int** b) {

System.***out***.println("With return type");

**int** c= a+b;

**return** c;

}

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

Calculator obj = **new** Calculator();

obj.multi();

System.***out***.println(obj.add(6, 8));

}

}

**Output:**

Without return type

With return type

14s

1. **Create a class Add add two numbers by using Wrapper class.**

**Code:**

**public** **class** Wrapper {

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

**int** x = Integer.*parseInt*(args[0]);

**int** y = Integer.*parseInt*(args[1]);

**int** z =x+y;

System.***out***.println("Addition: "+z);

}

}

**Output:**

Addition: 33