- 1. Expected Behaviour: => To Create the Instance of Example Class
- 2. Actual Behaviour:=> Unable to Create the Instance Debug the code

```
package com.training;
public class Example {
          protected int x, y;
                protected Example(int x, int y) {
                        super();
                        this.x = x;
                        this.y = y;
                }
                public int getX() {
                        return x;
                public void setX(int x) {
                        this.x = x;
                public int getY() {
                        return y;
                public void setY(int y) {
                        this.y = y;
                }
}
package example.demo;
import com.training.Example;
public class Application {
        public static void main(String[] args) {
                Example example = <u>new Example(5,6)</u>;
                System.out.println(example);
        }
```

- 1. Expected Behaviour: => To Print the message Hello World on the console
- 2. Actual Behaviour:=> Not Printing any Messages

- 1. Expected Behaviour: => To Print the message ODD
- 2. Actual Behaviour:=> Not able to compile the code

```
public class Application {

    public static void main(String[] args) {

        int odd = 1;

    if (odd) {
             System.out.println("odd");
        } else {
             System.out.println("even");
        }
}
```

- 1. Expected Behaviour: => To Print the Number 15
- 2. Actual Behaviour:=> Not able to compile the code

```
package com.training;
public class Example {
    int add(int i, int j){
        return i+j;
    }
}

package com.training;

public class AnotherExample extends Example {
    public static void main(String[] args) {
        short s = 9;
        System.out.println(add(s,6));
    }
}
```

- 1. Expected Behaviour: => To Print the String Value-A, Value-B and number 10
- 2. Actual Behaviour:=> Not able to compile the code and hence the expected output is not displayed

- 1. Expected Behaviour: => To Print String Welcome
- 2. Actual Behaviour:=> Prints the String Hello

public static void main(String[] args) {

System.out.println(b);

System.out.println(b);

byte b = 6; b+=8;

b = b + 7;

```
public class Application {
    public static void main(String[] args) {
        String value = "Hello";
        changeValue(value);
        System.out.println(value);
    }
    public static void changeValue(String value){
    value = "Welcome";
}
```

- 1. Expected Behaviour: => To Print String Name-B Name-B
- 2. Actual Behaviour:=> Code is Not Compiling

```
public class Example {
    private void printName(){
        System.out.println("Value-A");
    }
}

public class AnotherExample extends Example {
    public void printName(){
        System.out.println("Name-B");
    }
}

public class Application {
    public static void main(String[] args) {
        AnotherExample example1 = new AnotherExample();
        example1.printName();
        Example example2 = new AnotherExample();
        example2.printName();
}
```

- 1. Expected Behaviour: => To Print Number 5 and 8
- 2. Actual Behaviour:=> Printing A B 8

```
class Parent {
public Parent(){
   System.out.println("A");
}
public Parent(int i){
```

```
System.out.println(i);
class Child extends Parent{
public Child (){
System.out.println("B");
public Child (int i){
        this();
System.out.println(i+3);
}
public class Application {
        public static void main(String[] args) {
new Child(5);
        }
}
            Exercise - 10
            1. Expected Behaviour: => To Print String Father Done
            2. Actual Behaviour:=> Code is not compiling
package example.demo;
import java.io.*;
class Father {
        public Father() throws IOException {
        System.out.print("Father");
        throw new IOException();
        class Son extends Father {
                public Son() {
                        System.out.print("Son");
public class Application {
        public static void main(String[] args) {
                new Son();
       }
```

}