Steps to JAVA Selenium Projects

Automation Testing Stream

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CONTENTS- Object Oriented Programming

Step-1: Created Classes for Package- "oopsconcepts".

```
    Dopsconcepts
    AbstractExample.java
    AccessModifiers.java
    CollectionsExamples.java
    ExceptionalHandling.java
    Inheritance.java
    InterfaceExample.java
    OverloadingMethod.java
    OverrideMethod.java
```

Step-2: Code for Abstract Classes.

```
package oopsconcepts;
2 abstract class Abc{
       abstract void m1();
40
       void m2() {
           System.out.println("M2 CODE");
8 public class AbstractExample extends Abc {
       public static void main(String[] args) {
           // TODO Auto-generated method stub
11
           AbstractExample obj = new AbstractExample();
12
           obj.m1();
13
140
       void m1() {
           System.out.println("M1 CODE");
           m2();
       }
19
```

Step-3: Code for Override Method.

```
1 package oopsconcepts;
      void printing() {
          System.out.println(" This is the Grandfather Class!!");
80
      void printing() {
          super.printing();
          System.out.println(" This is the Father Class!!");
11 }
12 }
13 public class OverrideMethod extends Animal1{
140
       void printing() {
15
          super.printing();
          System.out.println(" This is the Child Class!!");
16
17
18
      public static void main(String[] args) {
19
          OverrideMethod obj = new OverrideMethod();
20
          obj.printing();
21
22 }
```

Step-4: Code for Array List, Linked List and Vector List- collections.

Step-5: Code for Hash Set and Linked Hash List-collections.

```
//tkstast
HashSet<String> set = new HashSet<String>();
set.add("MI");
set.add("ALL");
set.add("ALL");
set.add("READ");

System.out.println("\nHashSet: " + set);
set.remove("HI");
system.out.println("HashSet after removing elements: " + set);
//LinkedHashSet
LinkedHashSet(String> linkedset = new LinkedHashSet(String>();
linkedset.add("B");
linkedset.add("B");
linkedset.add("C");
linkedset.add("A");
linkedset.add("A");
system.out.println("Size of LinkedHashSet = "+ linkedset.size());
system.out.println("Original LinkedHashSet:"+ linkedset.println("Bystem.out.println("Removing D from LinkedHashSet:"+ linkedset.remove("D"));
system.out.println("Checking if A is present="+ linkedset.remove("Z"));
System.out.println("Checking if A is present="+ linkedset.contains("A"));
system.out.println("Checking if A is present="+ linkedset.remove("Z"));
System.out.println("Checking if A is present="+ linkedset.remove("Z"));
System.out.println("Checking if A is present="+ linkedset.contains("A"));
System.out.println("Checking if A is present="+ linkedset.contains("A"));
System.out.println("Updated LinkedHashSet: "+ linkedset);
```

Step-6: Code for Exceptional Handling.

```
package oopsconcepts;
public class ExceptionalHandling {

public static void main(String[] args) {
    int a[]= new int[7];
    try {
        a[10] = 100/0;
    }
    catch(ArrayIndexOutOfBoundsException e) {
        System.out.println("Index out of range");
}

catch(ArithmeticException e) {
        System.out.println("Arithmetic Exception occured");
}

catch(Exception e) {
        System.out.println("Exception occured");
}

finally {
        System.out.println("This is the finally block!!");
}

System.out.println("This is the finally block!!");
}
```

Step-7: Code for Inheritance- Multi-level.

```
package oopsconcepts;
class Grandfather{
    void m1()
    {
        System.out.println("This is grandfather class!");
    }
} class Father extends Grandfather{
    void m2()
    {
        System.out.println("This is father class!");
        m1();
    }
} class Inheritance extends Father {
    void m3()
    {
        System.out.println("This is child class!");
        m2();
    }
    public static void main(String[] args) {
        Inheritance obj = new Inheritance();
        obj.m3();
    }
}
```

Step-8: Code for Access Modifiers.

Step-9: Code for Interfaces.

Step-10: Code for Overloading Method.

```
OverloadingMethod.java ×
     package oopsconcepts;
  2 public class OverloadingMethod {
3  public static void main(String[] args) {
<u>/a</u> 4
                OverloadingMethod obj = new OverloadingMethod();
               int sum = obj.add(2, 3);
System.out.println("Addition of two int numbers is: "+ sum);
               int sum1 = obj.add(2, 3, 5);
System.out.println("Addition of three int numbers is: "+ sum1);
                float sum2= obj.add(10f, 11f);
System.out.println("Addition of two float numbers is: "+ sum2);
 130
           int add(int a, int b)
                return(a+b);
 170
          int add(int a, int b, int c)
                return(a+b+c);
 210
           float add(float a, float b)
                return(a+b);
```

Step-11: Output for Overloading Method.

```
Addition of two int numbers is: 5
Addition of three int numbers is: 10
Addition of two float numbers is: 21.0
```

Step-12: Output for Overriding Method.

```
History 
Synchronize 
Git Staging 
Git Reflog 
Properties 
Co

terminated > OverrideMethod [Java Application] C:\Users\ei13087\.p2\pc

This is the Grandfather Class!!

This is the Father Class!!

This is the Child Class!!

This is the Child Class!!

This is the Child Class!!

His is the Child Class!!

His is the Child Class!!

His is the Child Class!!

This is the Child Class!!

His is the Child Class!!

His is the Child Class!!

His is the Child Class!!

This is the Child Class!!

His is the Child Class!!

His is the Child Class!!

His is the Child Class!!

This is the Child Class!

This is the Child Class Class
```

Step-13: Output for Interfaces.

```
<terminated> InterfaceExample (1) [Java Appl

M1 CODE

M2 CODE
```

Step-14: Output for Inheritance- Multi-level.

```
<terminated> Inheritance [Java Application] (
This is child class!
This is father class!
This is grandfather class!
```

Step-15: Output for Exceptional Handling.

```
<terminated > ExceptionalHandling [Java Application] C
Arithmetic Exception occurred
This is the finally block!!
```

Step-16: Output for Collections.

```
<terminated> CollectionsExamples [Java Application] C:\Users\ei13087\.p2
Array List: Krittika
Array List: 1
Array List: 33.22
Krittika
1
Krittika
1
2
Linked list: [Anil, Krittika, Harish, Agrawal, Ran]
[Harish]
Vector list: [1, 2, 3, 4, 5]
[1, 2, 3, 5]
1 2 3 5
HashSet: [READ, HI, ALL, For, To]
HashSet: [READ, HI, ALL, For, To]
Size of LinkedHashSet = 5
Original LinkedHashSet:[A, B, C, D, E]
Removing D from LinkedHashSet:true
Trying to Remove Z which is not present: false
Checking if A is present=true
Updated LinkedHashSet: [A, B, C, E]
```

Step-17: Output for Abstract Classes.

```
<terminated > AbstractExample (1) [Java ]
M1 CODE
M2 CODE
```

Step-18: Output for Access Modifiers.

