07/02/2022 Java Session 14

Assignment

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Q1-

```java
package ExceptionAssignment;
class Parent{}
class Child extends Parent{}
public class Ques1 {
    public static void main(String[] args) {
        try {
            Child obj_c = (Child) new Parent();
        }
        catch (Exception e){
            System.out.println("Exception is:: "+e);
        }
        finally {
            System.out.println("Down-casting needs to be done using instanceof Operator");
        }
        System.out.println("Class Cast Exception Demo Above");
    }
}
```

Output-

Exception is:: java.lang.ClassCastException: class ExceptionAssignment.Parent cannot be cast to class ExceptionAssignment.Child (ExceptionAssignment.Parent and ExceptionAssignment.Child are in unnamed module of loader 'app')
Down-casting needs to be done using instanceof Operator
Class Cast Exception Demo Above

Q2-

```java
package ExceptionAssignment;
import java.util.Scanner;
public class Ques2 {
    public static void main(String[] args) {
        String num1="25T",num2="35";
        int a=0,b=0;
        try {
            a = Integer.parseInt(num1);
            b = Integer.parseInt(num2);

        }
        catch (Exception e){
            System.out.println("Exception is:: "+e);
        }
        System.out.println(a+b);
```

```
        }
}
```

OUTPUT-

Exception is:: java.lang.NumberFormatException: For input string: "25a30"
0

Q3-

```
package ExceptionAssignment;

public class Ques3 {
        public static void main(String[] args) {
            int[] array = {12,3,4,5,6,7,8,9,100,1000};
            int sum = 0;
            try {
                for (int i = 0; i <= array.length; i++) {
                    sum = sum + array[i];
                }
            }
            catch (Exception e){
                System.out.println("Exception caught:: "+e);
            }
        }
}
```

OUTPUT-

Exception caught:: java.lang.ArrayIndexOutOfBoundsException: Index 10 out of bounds
for length 10
Arrays are counted from 0th index