Assignment - 4   JAVA   Sree Roshan Nair

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Exception handling

1. Write a Java Program that throws an exception and catch it using a try-catch block.

Ans
```
Public class Exception_Example {
        public static void main (String [] args){

            try {
                int result = divide Numbers (5,0);
                System.out.println ("Result :" + result)
            }
            catch (Arithmetic Exception e){

                System.out. Print ln ("Error :" + e.getMessage());

        }
    }

    public static int divide Numbers (int dividend, int
                                              divisor){

        if (divisor ==0){

            throw new Arithmetic Exception (" Cannot
                    divide the given number by Zero")
        }
        return dividend /divisor;
    }
}
```

Sample Output:

```
Error: Cannot divide the given number by zero!
```

2. Write a Java Program to create a method that takes an integer as a parameter and throws an exception if the number is add.

Ans

```
public class Exception_OddNumber {
    public static void main (String []args){
        int n=18;
        trynumber (n);
        n = 7;
        trynumber (n);
    }

    public static void trynumber (int n){
        try {
            checkEvenNumber(n);
            System.out.println(n + "is a even.");
        }
        catch (IllegalArgumentException e){
            System.out.println("Error:" + e.getMessage(
        }
    }
public static void checkEvenNumber (int Number){
    if (number %2 != 0){
    throw new IllegalArgumentException(number + " is odd");
  }
 }
}
```

Output

```
16 is even
Error : 7 is odd.
```