ASSESSMENT ANSWERS WEEK1

QUESTION 1: JAVAFIRSTPROJECT

STEPS:

- 1. I am using STS4 for creating this Project but we can create Maven Project in CLI by giving input as "mvn archetype:generate -DgroupId=com.sapient.week1 -DartifactId=JavaFirstProject -DarchetypeArtifactId=maven-archetype-quickstart -DinteractiveMode=false"
- Open Spring Tools Suite 4
- Go to File -> New -> Project and create one project as "JavaFirstProject"
- 4. After that create a new class "CheckEven" which will determine if the input you are giving is even or odd.
- 5. After that create a method as "Public Boolean Check(int)".
- 6. Create If and Else for checking the condition (n%2==0)
- 7. After that create another method as "Public static void" and inside that declare variable as int number =0 and bool result = false;
- 8. Create a Scanner class object to take the input and read number from the end user.
- 9. If the Number is divisible by 2 then return result = true or False if not !!.
- Check number is Odd or Even and displays the result and after that closeScanner object.

CODE:

```
package com.sapient.week1
import java.util.Scanner;
public class CheckEven []

   public static boolean isCheckEven(int n) {
        // if number is divisible by
        // 2 then number is even
        if(n % 2 == 0)
            return true;

        // else the number is odd
        return false;
    }

   public static void main(String[] args) {
        // declare variable
        int number = 0;
        boolean result = false;

        // create Scanner class object to take input
        Scanner scan = new Scanner(System.in);

        // read number from end-user
        System.out.print("Enter an integer number:: ");
        number = scan.nextInt();

        // check number is even or not
        result = isCheckEven(number);

        // display result
        if(result)
            System.out.println(number+" is an even number");
        else
            System.out.println(number+" is an odd number");

            // close Scanner class object
        scan.close();
    }
}
```

QUESTION 2: CREATE JENKINS PIPELINE STEPS:

- 1. Go to Terminal and give input as "Jenkins-Its" after that we can use Jenkins on our Local Host.
- 2. Go to the Local host enter the Credentials required and after that you'll be on the Dashboard.
- 3. Go to Manage Plugins and add the plugins required for pipeline project.
- 4. Now go to Create Job and name your Pipeline Project and select **Pipeline project**.
- 5. As we are assuming our pipeline is not multibranched so that we're choosing "Pipeline" and click "OK"
- 6. Select **Poll SCM** and in "Pipeline Definition Select Pipeline from Script" and in Script Path select **Jenkins File**.
- 7. Prepare a Jenkins File in which you will mention the Stages for Cloning, Build, Package and Test/Deploy.

- 8. Now Click on Build Now and that will build a pipeline after compiling ,testing and Deployment of Code.
- 9. After that it will show Declarative Checkout SCM ,Compile ,Testing and Deployment Stage duration.
- 10. After that a src target folder will be created incluming a **POM.xml** file which includes the Maven Properties, Dependencies and the Compiler Version.