# Assignment – 05

# Implementation of Design Architecture

#### Team:

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### Patterns implemented:

1. MVC [Model View Controller]: MVC is a design software pattern which is used to implement the user interfaces to isolate the program logic with the rest of the program

#### Model:

- 1. TSPKnowledgeSource.java
- 2. DataRepository.java
- 3. Control.java

# <u>View:</u>

- 1. SolutionView.java
- 2. PlottingArea.java

#### Controller:

- 1. DrawingAreaMouseListener.java
- 2. MenuActionListener.java

- 2. Blackboard Pattern: Blackboard is a behavioral design pattern which acts like a computational framework to implement large integrated systems. It is broadly divided into three components:
- a. blackboard a global memory which comprises of objects
- b. knowledge sources modules which their own representation.
- c. control component controls the flow of the model
  - a. Blackboard: DataRepository.java
  - b. Control: Control.java
  - c. Knowledge source: TSPKnowledgeSource.java
- 3. Color codes for the line
  - 1. Red: minimum distance path
  - 2. Blue: 2<sup>nd</sup> minimum distance path
  - 3. Green: 3<sup>rd</sup> minimum distance path

<u>Note:</u> In order to save the data as a text file please follow the below mentioned format for naming:

"filename".txt