**EngineeringCampCoding Challenge-1**

**1hour 30minutes**

**Expectations:**

**1.Create complete new solution in visual studio**

**2.Use class and object, Collection, Exception and file io wherever required a/c to the question.**

**3.If you can’t proceed, ping the cross lead and continue with your assignment. No need to worry.**

Entity Classes:

|  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  | | --- | | Capability | | CapabilityId(Auto increment) | | Summary | | KO(List<String>) | | NonKo(ArrayList<String>) | | Track track | | |  | | --- | | Track | | TrackId | | Name | |  |

Write a menu driven program.

# Add Track to the system

* Ensure track name does not repeat , throw exception message “Track Name Exists”.
* Ensure track Id is positive integer , throw exception message “Track code should be positive integer”.

# Add Capability to the system

* Ask user to enter track name to map the capability .If user enters wrong track name throw exception “Invalid Track Name ”.
* Success message “Successfully added”

3.Display all capabilities as per track,

for eg : if user inputs “Java” it should display all the capabilities.

4.Display all Capabilities and write it in text file.

For eg. Give a line after writing each capability in text file.