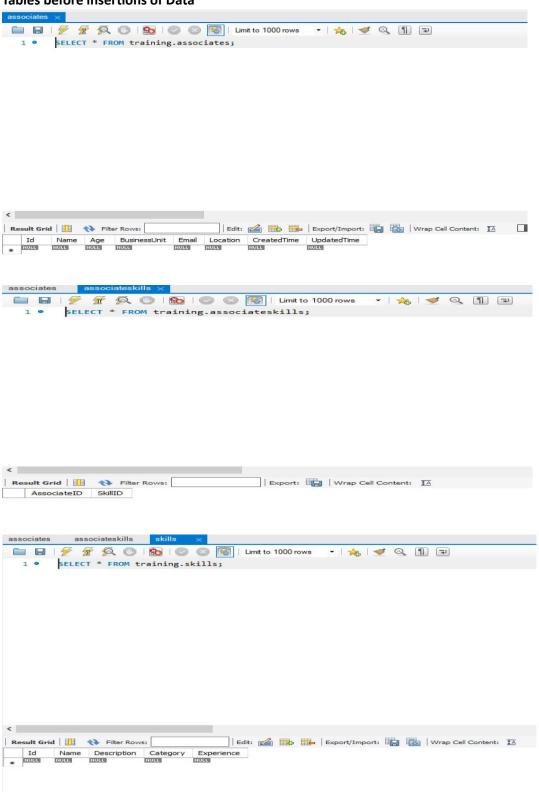
Capstone Screenshots

1. Tables before insertions of Data

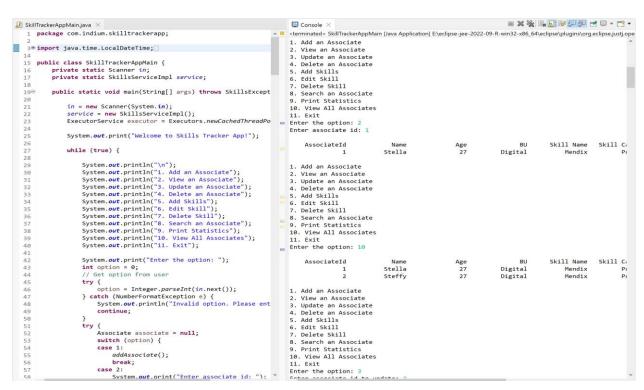


2. Add Associate / View Associate / View All Associates

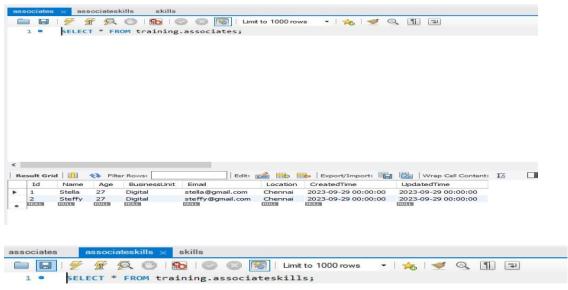
```
☑ SkillTrackerAppMain.java ×
              package com.indium.skilltrackerapp;
                                                                                                                                                                                   <terminated> SkillTrackerAppMain [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj
Welcome to Skills Tracker App!
        3⊕ import java.time.LocalDateTime:
1. Add an Associate
       public class SkillTrackerAppMain {
    private static Scanner in;
    private static SkillsServiceImpl service;

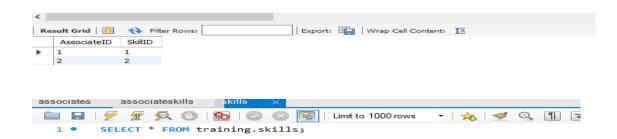
    Add an Associate
    View an Associate
    Update an Associate
    Delete an Associate
    Add Skills

     19<sup>©</sup>
20
21
                         public static void main(String[] args) throws SkillsExcept
                                                                                                                                                                                   6. Edit Skill
                                                                                                                                                                                         Delete Skill
Search an Associate
                                   in = new Scanner(System.in);
                                                                                                                                                                                  8. Search an Associate
9. Print Statistics
10. View All Associates
11. Exit
Enter the option: 1
Enter associate Name: Stella
Enter Business Unit: Digital
Enter Email: stella@gmail.com
Enter Location: Chennai
Enter Skill Name: Mendix
Enter skill Description: Lowcode
Enter skill category: Primary
                                   service = new SkillsServiceImpl();
                                  ExecutorService executor = Executors.newCachedThreadPo
                                  System.out.print("Welcome to Skills Tracker App!");
                                  while (true) {
      28
29
30
31
                                           System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("2. View an Associate");
System.out.println("3. Update an Associate");
System.out.println("4. Delete an Associate");
System.out.println("5. Add Skills");
System.out.println("6. Edit Skills");
System.out.println("6. Edit Skills");
System.out.println("7. Delete Skills");
System.out.println("8. Search an Associate");
System.out.println("9. Print Statistics");
System.out.println("10. View All Associates");
System.out.println("11. Exit");
                                                                                                                                                                                   Enter skill category: Primary
Enter skill Experience in months: 9
Connection created successfully. com.mysql.cj.jdbc.ConnectionImpl@3de8f619
Associate has been added successfully!
      33
34
35
36
37
38
39
40
                                                                                                                                                                                   2. View an Associate
                                                                                                                                                                                  3. Update an Associate
4. Delete an Associate
5. Add Skills
6. Edit Skill
      41
      42
43
44
                                            System.out.print("Enter the option: ");
int option = 0;
// Get option from user
                                                                                                                                                                                 6. Edit Skill
7. Delete Skill
8. Search an Associate
9. Print Statistics
10. View All Associates
11. Exit
Enter the option: 1
Enter associate Name: Steffy
Enter associate Age: 27
Enter Business Unit: Digital
Enter Email: steffy@gmail.com
Enter Location: Chennai
Enter Skill Name: Mendix
Enter skill Description: Lowcode
Enter skill category: Primary
      45
                                            try {
                                            option = Integer.parseInt(in.next());
} catch (NumberFormatException e) {
   System.out.println("Invalid option. Please ent
      49
                                                      continue;
                                            addAssociate():
                                                               System.out.print("Enter associate id: "): "
                                                                                                                                                                                   Enter skill category: Primary
```



3. Tables after insertions of Data







4. Update Associate / Delete Associate

57 58 case 2:

System.out.print("Enter associate id: "):

```
SkillTrackerAppMain.java >
                                                                                                                                    Console X
        package com.indium.skilltrackerapp;
                                                                                                                                   SkillTrackerAppMain [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.wir
                                                                                                                                   Welcome to Skills Tracker App!
     3⊕ import java.time.LocalDateTime;
                                                                                                                                    1 Add an Associate
    15 public class SkillTrackerAppMain {
                                                                                                                                   2. View an Associate
3. Update an Associate
4. Delete an Associate
               private static Scanner in;
private static SkillsServiceImpl service;
                                                                                                                                   5. Add Skills
6. Edit Skill
7. Delete Skill
8. Search an Associate
               public static void main(String[] args) throws SkillsException {
                     in = new Scanner(System.in);
                                                                                                                                   8. Search an Associate
9. Print Statistics
10. View All Associates
11. Exit
Enter the option: 3
Enter associate id to update: 1
                      service = new SkillsServiceImpl():
    22
23
24
25
                     ExecutorService executor = Executors.newCachedThreadPool();
                     System.out.print("Welcome to Skills Tracker App!");
    26
27
28
29
30
                                                                                                                                   Enter associate Name: Uma
Enter associate Name: Uma
Enter associate Age: 55
Enter Business Unit: Digital
Enter Email: uma@gmail.com
Enter Location: Chennai
                     while (true) {
                          System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("2. View an Associate");
System.out.println("3. Update an Associate");
System.out.println("4. Delete an Associate");
System.out.println("5. Add Skills");
System.out.println("6. Edit Skill");
System.out.println("6. Edit Skill");
System.out.println("7. Delete Skill");
System.out.println("8. Search an Associate");
System.out.println("10. View All Associates");
System.out.println("10. View All Associates");
System.out.println("11. Exit");
    31
32
33
34
35
36
37
38
39
40
                                                                                                                                   Connection created successfully. com.mysql.cj.jdbc.ConnectionImpl@c430e6c Associate has been updated successfully!
                                                                                                                                    1. Add an Associate
                                                                                                                                   2. View an Associate
3. Update an Associate
4. Delete an Associate
5. Add Skills
                                                                                                                                  6. Edit Skill
    41
42
43
44
45
                           System.out.print("Enter the option: ");
int option = 0;
// Get option from user
                                                                                                                                   7. Delete Skill
8. Search an Associate
9. Print Statistics
10. View All Associates
                            try {
                                  option = Integer.parseInt(in.next());
                                                                                                                                   11. Exit
Enter the option: 10
    46
                           } catch (NumberFormattxception e) {
   System.out.println("Invalid option. Please enter valid optiontinue;
                                                                                                                                                                                                                                              Skill Name
                                                                                                                                                                                                                                                                  Skill Category
                                                                                                                                                                                                         55
55
22
55
                                                                                                                                                                                                                          Digital
                                                                                                                                                                                                                                                    Mendix
    50
51
52
53
54
                                                                                                                                                                               Uma
                                                                                                                                                                                                                                                                           Primary
Primary
                            try {
                                                                                                                                                                               Uma
                                                                                                                                                                                                                          Digital
                                                                                                                                                                                                                                                       Java
                                 Associate associate = null:
                                                                                                                                                                              Juli
                                                                                                                                                                                                                                                                         Secondar
                                 switch (option) {
case 1:

☑ SkillTrackerAppMain.java ×
                                                                                                                                               Console X
          package com.indium.skilltrackerapp;
                                                                                                                                               <terminated> SkillTrackerAppMain [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\organizerappMain
                                                                                                                                              1. Add an Associate
3⊕ import java.time.LocalDateTime;
                                                                                                                                               2. View an Associate

    Update an Associate
    Delete an Associate
    Add Skills

     15 public class SkillTrackerAppMain {
                  private static Scanner in;
     16
                  private static SkillsServiceImpl service;
                                                                                                                                               6. Edit Skill
                                                                                                                                               7. Delete Skill
    18
                                                                                                                                               8. Search an Associate
9. Print Statistics
     19⊖
                  public static void main(String[] args) throws SkillsException {
     20
                         in = new Scanner(System.in);
                                                                                                                                               View All Associates
                         service = new SkillsServiceImpl();
                                                                                                                                               11. Exit
                                                                                                                                              Enter the option: 5
Enter the associate id to add skill: 1
     23
24
                         ExecutorService executor = Executors.newCachedThreadPool();
                                                                                                                                               Enter Skill Name: Java
Enter skill Description: Program
     25
26
                         System.out.print("Welcome to Skills Tracker App!");
                        while (true) {
     27
28
                                                                                                                                               Enter skill category: Secondary
Enter skill Experience in months: 21
                                System.out.println("\n");
System.out.println("1. Add an Associate");
     29
30
                                                                                                                                               Skill added successfully
                                System.out.println(1. Au an Associate );
System.out.println("2. View an Associate");
System.out.println("3. Update an Associate");
System.out.println("4. Delete an Associate");
System.out.println("5. Add Skills");
     31
32
                                                                                                                                               1. Add an Associate
     33
34
                                                                                                                                               2. View an Associate
                                                                                                                                               3. Update an Associate
                               System.out.prinlin("5. Edit Skill");
System.out.prinlin("6. Edit Skill");
System.out.prinlin("7. Delete Skill");
System.out.prinlin("8. Search an Associate");
System.out.prinlin("9. Print Statistics");
                                                                                                                                              4. Delete an Associate
5. Add Skills
     35
36
     37
38
                                                                                                                                              6. Edit Skill
                                                                                                                                               7. Delete Skill
                                System.out.println("10. View All Associates");
System.out.println("11. Exit");
                                                                                                                                              8. Search an Associate
9. Print Statistics
     39
40
     41
                                                                                                                                              10. View All Associates
     42
                                System.out.print("Enter the option: ");
                                                                                                                                               11. Exit
                                int option = 0;
// Get option from user
    43
44
                                                                                                                                               Enter the option: 4
                                                                                                                                               Enter associate id to delete: 2
     45
                                try {
                                                                                                                                              Deleted Successfully
     46
                                        option = Integer.parseInt(in.next());
     47
                                } catch (NumberFormatException e) {
    System.out.println("Invalid option. Please enter valid
     48
                                                                                                                                              1. Add an Associate
     49
                                       continue;

    View an Associate
    Update an Associate

     50
                                                                                                                                              4. Delete an Associate
5. Add Skills
     51
52
                                try {
                                       Associate associate = null;
                                       switch (option) {
                                                                                                                                               6. Edit Skill
                                       case 1:
                                                                                                                                               7. Delete Skill
                                                                                                                                              8. Search an Associate
9. Print Statistics
                                              addAssociate():
     56
                                              break;
```

10. View All Associates

5. Add Skill / Edit Skill / Delete Skill

```
Console
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Console ×
cterminated - SkillTrackerAppMain | Java Application| E\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\origin
1. Add an Associate
2. Update an Associate
3. Update an Associate
4. Delete an Associate
5. Add Skills
6. Edit Skill
8. Search an Associate
9. Print Statistics
10. View All Associates
110. View All Associates
110. The option: 5
Enter the option: 5
Enter the associate id to add skill: 1
Enter Skill Name: Java
Enter skill Name: Java
Enter skill Description: Program
Enter skill Experience on Many
Enter skill Experience condary
SkillTrackerAppMainjava ×
1 package com.indium.skilltrackerapp;
                             2
3⊕ import java.time.LocalDateTime;
                                        public class SkillTrackerAppMain {
   private static Scanner in;
   private static SkillsServiceImpl service;
                                                                            public static void main(String[] args) throws SkillsException {
                                                                                                  in = new Scanner(System.in);
service = new SkillsServiceImpl();
ExecutorService executor = Executors.newCachedThreadPool();
                                                                                                  System.out.print("Welcome to Skills Tracker App!");
                                                                                                  while (true) {
                                                                                                                          System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("2. View an Associate");
System.out.println("3. Update an Associate");
System.out.println("3. Update an Associate");
System.out.println("5. Add Skills");
System.out.println("6. Edit Skills");
System.out.println("6. Edit Skills");
System.out.println("7. Delate Skills");
System.out.println("8. Search an Associate");
System.out.println("9. Print Statistics");
System.out.println("11. Exit");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1. Add an Associate
2. View an Associate
3. Update an Associate
4. Delete an Associate
5. Add Skills
6. Experiment of the Associate
1. Delete & Skill
8. Search an Associate
10. View All Associate
11. Exit
Enter associate id to delete: 2
Deleted Successfully
                                                                                                                            System.out.print("Enter the option: ");
int option = 0;
// Get option from user
try
option = Integer.parseInt(in.next());
// catch (NumberFormatException e) {
System.out.println("Invalid option. Please enter valid continue;
                                                                                                                                  } catch (NumberFormatException e) {
    System.out.println("Invalid option. Please enter valid continue;
}

try {
    Associate associate = null;
    switch (option) {
    cas 1 MASSociate();
    break;
    case 2:
    System.out.print("Enter associate id: "):

} Add an Associate
2. View an Associate
3. Update an Associate
4. Delete an Associate
5. Add Skill
6. Edit Skill
7. Delete Skill
9. Print Statistics
10. View All Associate
9. Print Statistics
11. Evit
SkillTrackerAppMain.java ×
1 package com.indium.skilltrackerapp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ctemminated: SullInckerAppMair
1. Add an Associate
2. View an Associate
4. Delete an Associate
4. Delete an Associate
5. Add Skill
6. Edit Skill
7. Delete skill
8. Search an Associate
9. Print Statistics
10. View All Associate
11. Exit
Enter the option: 10
                    3⊕ import java.time.LocalDateTime;
                               public class SkillTrackerAppMain {
   private static Scanner in;
   private static SkillsServiceImpl service;
                                                         public static void main(String[] args) throws SkillsException {
                                                                            in = new Scanner(System.in);
service = new SkillsServiceImpl();
ExecutorService executor = Executors.newCachedThreadPool();
                                                                          System.out.print("Welcome to Skills Tracker App!");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Skill Name Skill Category
Mendix Primary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Primary
Secondary
Primary
                                                                                             System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("1. Add an Associate");
System.out.println("3. Update an Associate");
System.out.println("3. Update an Associate");
System.out.println("5. Add Skills");
System.out.println("5. Add Skills");
System.out.println("6. Edit Skill");
System.out.println("7. Delete Skill");
System.out.println("8. Search an Associate");
System.out.println("9. Print Statistics");
System.out.println("1. View All Associates");
System.out.println("11. Exit");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Juli 22 Digital Gaming

1. Add an Associate
2. View an Associate
3. Undate an Associate
4. Delete an Associate
5. Add skills
6. Edit skill
7. Delete Skill
8. Search an Associate
9. Print Statistics
10. View all Associates
11. Exit
11. Exit
12. Exit
13. Skills associate do the ID
Skills associated to the ID
Skill Associate of the ID
Skill Skill Skill Skill Skill: 3
Series Skill Skill Skill Skill: 3
Skills associated to the ID
Skill Skill Skill Skill: 3
Skill Skill Skill Skill: 3
Enter the skill in the Exit Skill Skill: 3
Enter skill Index Chet
Enter skill Experience in morths: 20
Skill updated successfully
                                                                                                    System.out.print("Enter the option: ");
int option = 0;
// Get option from user
try {
    option = Integer.parseInt(in.next());
} catch (NumberFormatException e) {
    System.out.println("Invalid option. Please enter valid
    continue;
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Experience

    SkillT

                                                                                                                                                                                                                                                                                                                                                                                                                                                        Console >:

Console >:

Console >:

Letromisted SidlifacterAppMain (Java Application) E\eclipse-jee-2022-09-R-win32-x86_64\eclipse-joluginnlorg-eclipse-justj-openjdt.h.

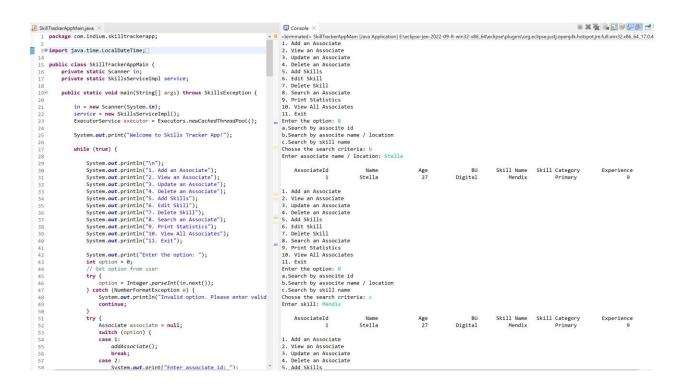
Add an Associate

Update an 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2
3⊕import java.time.LocalDateTime;
                               public class SkillTrackerAppMain {
    private static Scanner in;
    private static SkillsServiceImpl service;
                                                         public static void main(String[] args) throws SkillsException {
                                                                            in = new Scanner(System.in);
service = new SkillsServiceImpl();
ExecutorService executor = Executors.newCachedThreadPool();
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AssociateId
                                                                                             ile (rue) {
    System.out.println("\n");
    System.out.println("1. Add an Associate");
    System.out.println("2. View an Associate");
    System.out.println("3. Update an Associate");
    System.out.println("4. Update an Associate");
    System.out.println("5. Update an Associate");
    System.out.println("6. Edit Skill");
    System.out.println("6. Edit Skill");
    System.out.println("6. Search an Associate");
    System.out.println("8. Search an Associate");
    System.out.println("10. View All Associates");
    System.out.println("10. View All Associates");
    System.out.println("10. View All Associates");
    System.out.println("10. List");
    System.println("10. List");
    System.out.println("10. List");
    System.out.prin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. Add an Associate
2. View an Associate
4. Delete an Associate
5. Add Skills
6. Edit Skill
8. Search an Associate
9. Print Statistics
11. Extra Skills
11. Extra Skills
12. Extra Skills
13. Extra Skills
14. Extra Skills
15. Extra Skills
16. Extra Skills
17. Extra Skills
18. Ext
                                                                                                SkillId Skill Name Skill Description Skill Category

1 Mendix null Primary
4 Java null Secondary
                                                                                                continue,
try {
    ssociate associate = null;
    switch (option) {
    case 1:
        addassociate();
        break;
    case 2:
        svstem.owt.orint("Enter associate (d: ");
    }
}
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1. Add an Associate
2. View an Associate
3. Update an Associate
4. Delete an Associate
5. Add Skills
6. Edit Skill
7. Delete Skill
```

6. Search Associate

```
SkillTrackerAppMainjava ×
1 package com.indium.skilltrackerapp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  rAppMain [Java Application] E.\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20
                                                                                                                                                                                                                                                                                                                                                                                                         cteminated SkillTackarAppMail
1. Add an Associate
2. View an Associate
3. Update an Associate
4. Delete an Associate
5. Add Skill
6. Edit Skill
7. Delete Skill
8. Search an Associate
9. Print Statistics
10. View All Associate
11. Exit
Enter the option: 10
               3@ import dava.time.LocalDateTime:
                       public class SkillTrackerAppMain {
   private static Scanner in;
   private static SkillsServiceImpl service;
                                               public static void main(String[] args) throws SkillsException {
                                                                 in = new Scanner(System.in);
service = new SkillsServiceImpl();
ExecutorService executor = Executors.newCachedThreadPool();
                                                                 System.out.print("Welcome to Skills Tracker App!");
                                                                                                                                                                                                                                                                                                                                                                                                                          AssociateId
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Skill Name Skill Category
Mendix Primary
C++ Secondary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Experience
9
20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Stella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            BU
Digital
                                                                 while (true) {
                                                                                                                                                                                                                                                                                                                                                                                                  3 Juli
1. Add an Associate
2. View an Associate
3. Update an Associate
4. Delete an Associate
6. Edit skill
7. Delete Skill
8. Search an Associate
10. View All Associate
11. Exit
12. Exit
13. Exit
14. Search by associate
15. Search by associate in
16. Search by as
                                                                                  System.out.println("\n");
System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("2. View an Associate");
System.out.println("3. Update an Associate");
System.out.println("4. Belte an Associate");
System.out.println("5. Add Skills");
System.out.println("5. Add Skills");
System.out.println("5. Belte Skill");
System.out.println("7. Belte Skill");
System.out.println("7. Belte Skill");
System.out.println("6. Print Statistics");
System.out.println("6. View All Associates");
System.out.println("11. Exit");
                                                                                    System.out.print("Enter the option: ");
int option = 0;
// Get option from user
try {
    option = Integer.parseInt(in.next());
} catch (NumberFormatException e) {
    System.out.println("Invalid option. Please enter valid
    continue;
                                                                                                                                                                                                                                                                                                                                                                                                                          AssociateId
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Skill Name Skill Category
C++ Secondary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Experience
                                                                               Add an Associate
View an Associate
Update an Associate
Delete an Associate
Add Skills
Edit Skill
Delete Skill
Search an Associate
```



7. Print Statistics & Exit

option = Integer.parseInt(in.next()); } catch (NumberFormatException e) {
 System.out.println("Invalid option. Please enter valid

System.out.print("Enter associate id: "):

Associate associate = null; switch (option) { case 1: addAssociate(); break;

continue:

case 2:

```
SkillTrackerAppMain.java ×
                package com.indium.skilltrackerapp;
                                                                                                                                                                                                                                                      <terminated> SkillTrackerAppMain [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclip
                                                                                                                                                                                                                                                     cterminated: SkillTackerAppMain [Java Application] E\eclipse-jee-2022-0
1. Add an Associate
2. View an Associate
3. Update an Associate
4. Delete an Associate
5. Add Skills
6. Edit Skill
7. Delete Skill
8. Search an Associate
9. Print Statistics
10. View All Associates
11. Exit
Enter the option: 9
a.Total No of associates
b.Total No of associates who has more than 1 skill
c.List of Associate IDs who has more than N skills
d.Total No of Associates who has given set of skills
e.Skill count based on Associates
f.Associate Count based on Business Unit
g.Associate Average experience based on Skills
h.Skills Count based on Location
Enter an option: a
Total associates count is: 3
                                                                                                                                                                                                                                                      1. Add an Associate
           B⊕ import java.time.LocalDateTime;
                public class SkillTrackerAppMain {
                            private static Scanner in;
private static SkillsServiceImpl service;
                            public static void main(String[] args) throws SkillsException {
      20
                                          in = new Scanner(System.in);
                                        service = new SkillsServiceImpl();
ExecutorService executor = Executors.newCachedThreadPool();
      22 24 25 27 28 29 33 23 34 35 36 37 89 44 44 44 44 44 45 55 23 54
                                        System.out.print("Welcome to Skills Tracker App!"):
                                        while (true) {
                                                    System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("2. View an Associate");
System.out.println("3. Update an Associate");
System.out.println("4. Delete an Associate");
System.out.println("5. Add Skills");
System.out.println("6. Edit Skill");
System.out.println("7. Delete Skill");
System.out.println("7. Delete Skill");
System.out.println("9. Print Statistics");
System.out.println("9. Print Statistics");
System.out.println("10. View All Associates");
System.out.println("11. Exit");
                                                                                                                                                                                                                                                      1. Add an Associate
2. View an Associate
3. Update an Associate
4. Delete an Associate
                                                                                                                                                                                                                                                      5. Add Skills
6. Edit Skill
7. Delete Skill
                                                     System.out.print("Enter the option: ");
                                                                                                                                                                                                                                                      9. Print Statistics
10. View All Associates
11. Exit
Enter the option: 9
                                                     int option = 0;
// Get option from user
try {
                                                    try {
    option = Integer.parseInt(in.next());
} catch (NumberFormatException e) {
    System.out.println("Invalid option. Please enter valid continue;
                                                                                                                                                                                                                                                      Enter the option: 9
a.Total No of associates
b.Total No of associates who has more than 1 skill
c.List of Associate IDs who has more than N skills
d.Total No of Associates who has given set of skills
e.Skill count based on Associates
f.Associate Count based on Business Unit
g.Associate Average experience based on Skills
h.Skills Count based on Location
Enter an option: b
Total associates who has more than 1 skill is : 1
                                                     try {
    Associate associate = null;
    (ontion) {
                                                                   case 1:
                                                                              addAssociate();
                                                                              break;
                                                                 case 2:
                                                                               System.out.print("Enter associate id: "):
                                                                                                                                                                                                                       Console ×
☑ SkillTrackerAppMain.java ×
                                                                                                                                                                                                                    cterminated - SkillTrackerAppMain [Java Application] E\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjc
1. Add an Associate
2. View an Associate
3. Update an Associate
4. Delete an Associate
5. Add Skills
6. Edit Skill
6. Edit Skill
               package com.indium.skilltrackerapp;
            ● import java.time.LocalDateTime;
       15 public class SkillTrackerAppMain {
                          private static Scanner in;
private static SkillsServiceImpl service;
                                                                                                                                                                                                                    6. Edit Skill
7. Delete Skill
8. Search an Associate
9. Print Statistics
10. View All Associate:
11. Exit
                          public static void main(String[] args) throws SkillsException {
                                    in = new Scanner(System.in);
service = new SkillsServiceImpl();
ExecutorService executor = Executors.newCachedThreadPool();
                                                                                                                                                                                                                     Enter the option:
      Enter the option: 9
a.Total No of associates
b.Total No of associates who has more than 1 skill
c.List of Associate IDs who has more than N skills
d.Total No of Associates who has given set of skills
e.Skill count based on Associates
f.Associate Count based on Business Unit
g.Associate Average experience based on Skills
h.Skills Count based on Location
                                    System.out.print("Welcome to Skills Tracker App!");
                                              System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("2. View an Associate");
System.out.println("3. Update an Associate");
System.out.println("4. Delete an Associate");
System.out.println("5. Add Skills");
System.out.println("6. Edit Skill");
System.out.println("6. Edit Skill");
System.out.println("7. Delete Skill");
System.out.println("8. Search an Associate");
System.out.println("9. Print Statistics");
System.out.println("10. View All Associates");
System.out.println("11. Exit");
                                                                                                                                                                                                                      Enter an option: b
Total assoicates who has more than 1 skill is : 1
                                                                                                                                                                                                                     1. Add an Associate
2. View an Associate
3. Update an Associate
                                                                                                                                                                                                                     4. Delete an Associate
                                                                                                                                                                                                                     5. Add Skills
6. Edit Skill
                                                                                                                                                                                                                    6. Edit Skill
7. Delete Skill
8. Search an Associate
9. Print Statistics
10. View All Associates
11. Exit
                                               System.out.print("Enter the option: ");
int option = 0;
// Get option from user
```

Enter the option:

Enter an option:

Enter the option: 9
a.Total No of associates
b.Total No of associates who has more than 1 skill
c.List of Associate IDs who has more than N skills
d.Total No of Associates who has given set of skills
e.Skill count based on Associates
f.Associate Count based on Business Unit
g.Associate Average experience based on Skills
h.Skills Count based on Location
Fitter an option of

List of associate id's who has more than 1 skill

```
Console X
package com.indium.skilltrackerapp;
                                                                                                a.Total No of associates
3⊕ import java.time.LocalDateTime;
                                                                                                b.Total No of associates who has more than 1 skill
                                                                                               c.List of Associate IDs who has more than N skills
   15 public class SkillTrackerAppMain {
                                                                                               d.Total No of Associates who has given set of skills
           private static Scanner in;
                                                                                               e.Skill count based on Associates
f.Associate Count based on Business Unit
            private static SkillsServiceImpl service;
                                                                                                g.Associate Average experience based on Skills
   196
           public static void main(String[] args) throws SkillsException {
                                                                                                h.Skills Count based on Location
                                                                                                Enter an option: d
                in = new Scanner(System.in);
                                                                                               Enter the skill name to find the associates:
   22
                service = new SkillsServiceImpl();
                ExecutorService executor = Executors.newCachedThreadPool();
                                                                                            Total No of associates with given skill: 1
                System.out.print("Welcome to Skills Tracker App!");
   25
26
                                                                                               1. Add an Associate
   27
                while (true) {
                                                                                               2. View an Associate
   28
                     System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("2. View an Associate");
System.out.println("3. Update an Associate");
System.out.println("4. Delete an Associate");
                                                                                               3. Update an Associate
4. Delete an Associate
   29
   30
31
                                                                                               5. Add Skills
                                                                                               6. Edit Skill
   32
33
                                                                                               7. Delete Skill
                                                                                               8. Search an Associate
                     System.out.println("5. Add Skills");
System.out.println("6. Edit Skill");
   34
35
36
37
                                                                                                9. Print Statistics
                                                                                               10. View All Associates
                     System.out.println("7. Delete Skill");
System.out.println("8. Search an Associate");
System.out.println("9. Print Statistics");
                                                                                               11. Exit
                                                                                                Enter the option: 9
   38
                                                                                               a. Total No of associates
                     System.out.println("10. View All Associates");
System.out.println("11. Exit");
   39
40
                                                                                                b.Total No of associates who has more than 1 skill
                                                                                               c.List of Associate IDs who has more than N skills d.Total No of Associates who has given set of skills
   41
                     System.out.print("Enter the option: ");
   42
                                                                                               e.Skill count based on Associates
f.Associate Count based on Business Unit
   43
                     int option = 0;
   44
                     // Get option from user
                                                                                                g.Associate Average experience based on Skills
   45
                     try {
                                                                                               h.Skills Count based on Location
                          option = Integer.parseInt(in.next());
   46
47
                                                                                                Enter an option: e
                     } catch (NumberFormatException e) {
                                                                                                Associate: Stella
   48
                          System.out.println("Invalid option. Please enter valid
                                                                                               Primary Skills: 2
   49
                          continue;
                                                                                                Secondary Skills: 0
   50
   51
52
                     try {
                          Associate associate = null;
                                                                                               Primary Skills: 1
   53
                          switch (option) {
                                                                                                Secondary Skills: 0
   54
                          case 1:
   55
                               addAssociate();
                                                                                               Associate: Juli
   56
                              break;
                                                                                               Primary Skills: 0
   57
                                                                                               Secondary Skills: 1
   50
                               Svstem.out.print("Enter associate id: "):
```

```
SkillTrackerAppMain.java ×
                                                                                         ■ Console ×
     package com.indium.skilltrackerapp:
                                                                                        <terminated> SkillTrackerAppMain [Java Application] E:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.er
1. Add an Associate
                                                                                        2. View an Associate
3⊕ import java.time.LocalDateTime;
                                                                                        3. Update an Associate
                                                                                        4. Delete an Associate
  15 public class SkillTrackerAppMain {
                                                                                        5. Add Skills
          private static Scanner in;
  16
                                                                                        6. Edit Skill
  17
          private static SkillsServiceImpl service;
                                                                                        7. Delete Skill
  18
                                                                                        8. Search an Associate
          public static void main(String[] args) throws SkillsException {
  198
                                                                                        9. Print Statistics
  20
                                                                                        10. View All Associates
  21
               in = new Scanner(System.in);
                                                                                        11. Exit
               service = new SkillsServiceImpl();
  22
                                                                                        Enter the option: 9
               ExecutorService executor = Executors.newCachedThreadPool();
  23
                                                                                        a.Total No of associates
  24
                                                                                        b.Total No of associates who has more than 1 skill
               System.out.print("Welcome to Skills Tracker App!"):
  25
                                                                                        c.List of Associate IDs who has more than N skills
  26
                                                                                        d.Total No of Associates who has given set of skills
  27
               while (true) {
                                                                                        e.Skill count based on Associates
  28
                                                                                        f.Associate Count based on Business Unit
                   System.out.println("\n");
  29
                                                                                        g.Associate Average experience based on Skills
  30
                   System.out.println("1. Add an Associate");
                                                                                        h.Skills Count based on Location
  31
                   System.out.println("2. View an Associate");
                                                                                        Enter an option: f
                   System.out.println("3, Update an Associate");
                                                                                        Business Unit: Digital
                   System.out.println("4. Delete an Associate");
  33
                                                                                        Associate Count: 2
  34
                   System.out.println("5. Add Skills");
                   System.out.println("6. Edit Skill");
System.out.println("7. Delete Skill");
  35
                                                                                        Business Unit: Gaming
  36
                                                                                        Associate Count: 1
  37
                   System.out.println("8. Search an Associate");
  38
                   System.out.println("9. Print Statistics");
System.out.println("10. View All Associates");
  39
```

```
X X =
  ☑ SkillTrackerAppMain.java >
                                                                                                                                                  Console ×
                                                                                                                                                  -terminated > SkillTrackerAppMain [Java Application] E\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugin
2. View an Associate
           package com.indium.skilltrackerapp;
                                                                                                                                                2. View an Associate
3. Update an Associate
4. Delete an Associate
5. Add Skills
6. Edit Skill
7. Delete Skill
8. Search an Associate
9. Print Statistics
10. View All Associates
11. Exit
Enter the option: 0
        ⊕ import java.time.LocalDateTime;
      15 public class SkillTrackerAppMain {
                  private static Scanner in;
private static SkillsServiceImpl service;
     18
19
20
21
22
                  public static void main(String[] args) throws SkillsException {
                        in = new Scanner(System.in);
service = new SkillsServiceImpl();
ExecutorService executor = Executors.newCachedThreadPool();
                                                                                                                                                  Enter the option: §
                                                                                                                                                 Enter the option: 9
a.Total No of associates
b.Total No of associates who has more than 1 skill
c.List of Associate IDs who has more than N skills
d.Total No of Associates who has given set of skills
e.Skill count based on Associates
f.Associate Count based on Business Unit
g.Associate Count based on Business Unit
g.Associate Average experience based on Skills
h.Skills Count based on Location
Enter an option: g
Connection created successfully. com.mysql.cj.jdbc.ConnectionImpl@28dcca@c
Skill: Java
     System.out.print("Welcome to Skills Tracker App!");
                        while (true) {
                              System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("2. Vlew an Associate");
System.out.println("3. Update an Associate");
System.out.println("4. Delete an Associate");
System.out.println("5. Add Skills");
System.out.println("6. Edit Skills");
System.out.println("6. Edit Skills");
System.out.println("7. Delete Skills");
System.out.println("8. Search an Associate");
System.out.println("9. Print Statistics");
System.out.println("10. View All Associates");
System.out.println("11. Exit");
                                                                                                                                                  Skill: Java
Average Experience: 18.5
                                                                                                                                                 Associates with this skill:
                                                                                                                                                 Associate Name
                                                                                                                                                                                                    Experience
                                                                                                                                                  Stella
                                                                                                                                                                                                             29
                               System.out.print("Enter the option: ");
int option = 0;
// Get option from user
                                                                                                                                                  Average Experience: 20.0
                                // Get
try {
                                       option = Integer.parseInt(in.next());
                                                                                                                                                 Associates with this skill:
                               } catch (NumberFormattXception e) {
   System.out.println("Invalid option. Please enter valid opticontinue;
                                                                                                                                                 Associate Name
                                                                                                                                                                                                    Experience
                                                                                                                                                  Skill: Mendix
                                try 
                                      Associate associate = null;
                                                                                                                                                  Average Experience: 9.0
                                      switch (option) {
                                                                                                                                                 Associates with this skill:
                                      case 1:
                                             addAssociate():
                                                                                                                                                                                                    Experience
                                             break;
                                                                                                                                                  Associate Name
                                      Case 2:

Custom out point/"Enton passaints id. ").
                                                                                                                                                                  ■ Console ×
<terminated> SkillTrackerAppMain [Java Application] E:\eclipse-jee-2022-09-R-wi
Stella
      package com.indium.skilltrackerapp;
      3⊕ import java.time.LocalDateTime;
    15 public class SkillTrackerAppMain {
                                                                                                                                                                 1. Add an Associate
    16
                  private static Scanner in;
                                                                                                                                                                 2. View an Associate
                  private static SkillsServiceImpl service;
                                                                                                                                                                  3. Update an Associate
    18
                                                                                                                                                                  4. Delete an Associate
    196
                  public static void main(String[] args) throws SkillsException {
                                                                                                                                                                  5. Add Skills
    20
                                                                                                                                                                  6. Edit Skill
                           in = new Scanner(System.in);
                                                                                                                                                                  7. Delete Skill
                           service = new SkillsServiceImpl();
                                                                                                                                                                  8. Search an Associate
                          ExecutorService executor = Executors.newCachedThreadPool();
    23
                                                                                                                                                                  9. Print Statistics
                                                                                                                                                                  10. View All Associates
                          System.out.print("Welcome to Skills Tracker App!");
                                                                                                                                                                  11. Exit
    26
                                                                                                                                                                  Enter the option: 9
    27
                          while (true) {
                                                                                                                                                                 a.Total No of associates
b.Total No of associates who has more than 1 skill
    28
                                 System.out.println("\n");
System.out.println("1. Add an Associate");
System.out.println("2. View an Associate");
System.out.println("3. Update an Associate");
System.out.println("4. Delete an Associate");
    29
                                                                                                                                                                 c.List of Associate IDs who has more than N skills
d.Total No of Associates who has given set of skills
    30
                                                                                                                                                            e.Skill count based on Associates
f.Associate Count based on Business Unit
    32
    33
                                                                                                                                                                 g.Associate Average experience based on Skills
h.Skills Count based on Location
                                 System.out.println("5. Add Skills");
System.out.println("6. Edit Skill");
System.out.println("7. Delete Skill");
System.out.println("8. Search an Associate");
    34
    35
                                                                                                                                                                  Enter an option: h
                                                                                                                                                            Location : Chennai
    37
                                                                                                                                                                 Associate Count: 2
                                  System.out.println("9. Print Statistics");
System.out.println("10. View All Associates");
System.out.println("11. Exit");
```

Location : Bangalore

1. Add an Associate

2. View an Associate

3. Update an Associate

4. Delete an Associate 5. Add Skills

8. Search an Associate

10. View All Associates

9. Print Statistics

Enter the option: 11

■ Associate Count: 1

6. Edit Skill

11. Exit

Thank you!!!

7. Delete Skill

39

40

41

42

43 44

45

46

48

49

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57

System.out.print("Enter the option: ");

Associate associate = null;

switch (option) {

break;

addAssociate();

option = Integer.parseInt(in.next());

} catch (NumberFormatException e) {
 System.out.println("Invalid option. Please enter valid option.")

int option = 0;
// Get option from user

continue;

case 1:

case 2:

try {

try {