Q1. Square Matrix

```
Q1_EnoughFuelCo...
                                               Q2_FindX.java
Q1_SquareMatrix.j... × 
Q16_SingleArray...
                                                                                                                        ■ Console ×
<terminated> Q1_SquareMatrix [Java Application] C:\Users\
 ∨ 🚜 > src
   > 🚜 > feb23_ass
                      7 public class Q1_SquareMatrix {
8  public static void main(String[] args) {
9  Scanner sc = new Scanner(System.in);
10  int N = sc.nextInt();
11  int matrix[][] = new int[N][N];
      → 🚜 Q1_Squa
    > 🍱 module-infc 🚹 9
ANP_C7437_class1
ANP_C7437_class1
ANP_C7437_class
ANP_C7437_class2
ANP_C7437_class
ANP_C7437_class4
# ANP C7437 class!
₩ ANP_C7437_class€
ANP_C7437_class7
ANP_C7437_class
# ANP_C7437_class
₩ ANP_C7437_lab [[
≈ eclipse-workspace
```

Q2. Rectangular Matrix

```
Package ... × 🏗 Type Hie... 🚆 🚨 Q1_SquareMatrix.java 🏻 🚨 Q2_RectangularMatrix.java ×
                                                                                                                                                                       □ □ Console ×
                                                                                                                          <terminated > Q2_RectangularMatrix [Java Application] C:\Users
                                    7 public class Q2_RectangularMatrix {
8  public static void main(String[] args) {
9    Scanner sc = new Scanner(System.in);
10    int N = sc.nextInt();
12    ist m = sc.nextInt();
   > # > feb23_assignment
      > 👪 Q1_SquareMatrix.java
       > 👪 Q2_RectangularMatrix.j
    > 🛂 module-info.java
ANP_C7437_class1
ANP_C7437_class10 [Daily-Pract
 ANP_C7437_class11 [Daily-Pract
 록 > ANP_C7437_class12 [Daily-Pra
 ANP_C7437_class2
ANP C7437 class4 [Daily-Practic
₩ ANP_C7437_class5 [Daily-Practic
# ANP_C7437_class6 [Daily-Practic
 ANP_C7437_class7 [Daily-Praction
ANP_C7437_class8 [Daily-Practic
# ANP_C7437_class9 [Daily-Practic
                                                                 System.out.print (matrix[i][j] + 1 +
₩ ANP_C7437_lab [Daily-Practice r
eclipse-workspace
```

Q3. Transpose the Matrix

```
🖁 Package ... × 🟗 Type Hie...
                                                                                             <terminated > Q3_TransposeMatrix [Ja
                 🗎 😉 👺 E
 3 4
0 0 0 0
 > # > feb23_assignment
                              public class Q3_TransposeMatrix {
   public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        int n = sc.nextInt();
        int m = sc.nextInt();
        int matrix[][] = new int[n][m];
    > 🚜 Q1_SquareMatrix.java
      & Q2_RectangularMatrix.j
      > 👪 Q3_TransposeMatrix.jav
    > 🍱 module-info.java
 ANP_C7437_class1
 ANP_C7437_class2
 ANP_C7437_class3
 ANP_C7437_class4 [Daily-Practic
 # ANP C7437 class5 [Daily-Practic
 ₩ ANP_C7437_class6 [Daily-Practic
 ANP_C7437_class7 [Daily-Practic
 ANP_C7437_class8 [Daily-Practic
 ANP_C7437_class9 [Daily-Practic
 ₩ ANP_C7437_lab [Daily-Practice r
 ₻ eclipse-workspace
```

Q4. Reverse Array Traversal

```
🖁 Package ... × 🔃 Type Hie... 💆 🚨 Q1_SquareMatrix.java 🔎 Q2_RectangularMatrix.java 🔎 Q3_TransposeMatrix.java 💆 Q4_ReverseArrayTraversal.java ×
                   🖻 ≒ | 👺 🗄
 ₩ > ANP_C7437_Assignment [Dai
                                3 package feb23_assignment5;

✓ M > src

   > # > feb23_assignment
   public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
      > 👪 Q3_TransposeMatrix.jav
      > 🌇 Q4_ReverseArrayTraver:
   > 🛂 module-info.java
 ANP_C7437_class1
 ANP_C7437_class10 [Daily-Pract
 ANP_C7437_class11 [Daily-Pract
 3 > ANP C7437 class12 [Daily-Pra
 ANP_C7437_class2
 ANP_C7437_class3
 # ANP_C7437_class4 [Daily-Practic
 ₩ ANP_C7437_class5 [Daily-Practic
 # ANP_C7437_class6 [Daily-Practic
 ANP_C7437_class7 [Daily-Practic
 🕏 ANP_C7437_class8 [Daily-Practic
 ANP_C7437_class9 [Daily-Practic

    Problems □ Javadoc □ Declaration □ Console ×

 ANP_C7437_lab [Daily-Practice |
 ₻ eclipse-workspace
```

Q5. Traverse a 2d Array

Q6. N Traversal

```
♯ P... × は T... □ □ 🕡 Q5_Traverse2...
                                                                                             □ □ Console ×
                                         ■ Q6_Ntravers... × ■ Q7_ReverseN...
         □ ≒ 👺 ∃
                                                                                               <terminated> Q6_Ntraversal [Java Ap
> 🛋 JRE System Libi
     # > src 7 F

> # > feb23_ass 5 9 9 10
  public class Q6_Ntraversal {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
}
       → 👪 Q1_Squa 🗓
       > 🚜 Q2_Recta 🔀
                                   int N = sc.nextInt();
int matrix[][] = new int[N][N];
        > 👪 Q3 Trans 🗓
        > 👪 Q4_Reve
         A Q5_Trave
        > 🚜 Q6_Ntrav
        > 🚜 Q7_Reve
     > 4 module-infc
  ANP_C7437_class1
  ANP_C7437_class1
 ANP C7437 class
> 🥰 > ANP_C7437_clas
> # ANP_C7437_class2
> # ANP_C7437_class3
> # ANP_C7437_class4
> # ANP_C7437_class!
> 😽 ANP_C7437_class( 🛂
> 🕏 ANP_C7437_class7
ANP_C7437_class{
> 😽 ANP_C7437_class9
  ₩ ANP_C7437_lab [[
```

Q7. Reverse N Traversal

```
Q7_ReverseN... × 3
                                                                              ■ Console ×
 | 1 // Reverse N Traversal
| ANP_C7437_Ass | 2 | 3 | package feb23_assignment5;
  <terminated> Q7 ReverseN
 ANP_C7437_class1
 ANP_C7437_class1
 ANP_C7437_class1
> 💆 ANP_C7437_class2
 # ANP_C7437_class3
> # ANP_C7437_class4
                                System.out.print(matrix[j][k] + " "[];
> # ANP_C7437_class!
 # ANP_C7437_class(
 ANP_C7437_class7
 ANP_C7437_class
 ANP_C7437_class9
                           System.out.print(matrix[j][2] + " ");
 ₩ ANP_C7437_lab [[
 ₩ eclipse-workspace
```

Q8. Diamond Traversal

```
□ □ □ Console ×
| 1 // Diamond Traversal
                                                                                      <terminated > Q8_D
 > ReD23_ass 10
> ReQ1_Squa 11
> ReQ1_Squa 11
> Req2_Recta 13
14
> Req2_Recta 13
16
> Req2_Revei 16
> Req2_Revei 18
> Req2_Revei 18
> Req2_Revei 18
                    for(int i = 0; i<T; i++)
{
   int N = sc.nextInt();
   int matrix[][] = new int[N][N];</pre>

    Ä ANP_C7437_class
    Ä ANP_C7437_class
    29

 ANP_C7437_class1
 ANP_C7437_class
 # ANP_C7437_class4 38
 ANP C7437 class(
 # ANP_C7437_class
 ANP C7437 lab [[
```

Q9. Spiral Traversal

```
🎍 *Q9_SpiralT... × 🦠
                                       Q8_DiamondT...
                                                                                                                                                                     ■ Console ×
Q7 ReverseN...
                                                                                                                                                                   <terminated> Q9
        blic class Q9_SpiralTraversal {
   public static void main(String[] args) {
      Scanner gc = new Scanner(System.in);
      int T = sc.nextInt();
```

Q10. Circular Traversal