1. Vowels_Consonants_Count

```java
4 public class Vowels_Consonants_Count {
5
6     public static void main(String[] args) {
7         Scanner sc=new Scanner(System.in);
8         System.out.print("Enter Input: ");
9         String str=sc.nextLine();
10        int vowel=0,consonent=0;
11        for(int i=0;i<str.length();i++)
12        {
13            char ch=str.charAt(i);
14            if(Character.isLetter(ch))
15            {
16                if(ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u')
17                    vowel+=1;
18                else
19                    consonent+=1;
20            }
21        }
22
23        System.out.println("Vowels="+vowel+"\nConsonent="+consonent);
24    }
25
26 }
27
```

Problems @ Javadoc Declaration Console ×

<terminated> Vowels_Consonants_Count [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17
```
Enter Input: Hello World
Vowels=3
Consonent=7
```

2. Unique_Characters

```java
1 package com.package2;
2 import java.util.*;
3 import java.lang.*;
4
5 public class Unique_Characters {
6
7     public static void main(String[] args) {
8         Scanner sc=new Scanner(System.in);
9         System.out.print("Enter Input: ");
10        String str=sc.nextLine();
11        StringBuilder result = new StringBuilder();
12
13        for (int i=0; i<str.length();i++) {
14            char ch = str.charAt(i);
15            if (result.indexOf(String.valueOf(ch))==-1)
16            {
17                result.append(ch);
18            }
19        }
20        System.out.println(result);
21    }
22
23 }
24
```

Problems @ Javadoc Declaration Console ×

<terminated> Unique_Characters [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_
```
Enter Input: xperience
xperinc
```

3. Travel_Agencies

```java
29          }
30
31
32
33⊖      public static void main(String[] args) {
34          Travel_Agencies ob1=new Travel_Agencies(123,"A2Z Agency","Platinum",50000,true);
35          Travel_Agencies ob2=new Travel_Agencies(345,"SSS Agency","Gold",30000,false);
36          Travel_Agencies ob3=new Travel_Agencies(987,"cos and Kings","Diamond",40000,true);
37          Travel_Agencies ob4=new Travel_Agencies(888,"Global tours","Gold",20000,false);
38          Travel_Agencies ag[]= {ob1,ob2,ob3,ob4};
39          System.out.println(findAgencyWithHighestPackagePrice(ag));
40
41          Travel_Agencies res=agencyDetailsForGivenIdAndType(ag,987,"Diamond");
42          if (res != null) {
43              System.out.println(res.get_agencyName() + ":" + res.get_price());
44          } else {
45              System.out.println("No matching agency found.");
46          }
47
48          }
49
50      }
51
52
```

🔲 Problems @ Javadoc 🔲 Declaration 🔲 Console ×

<terminated> Solution [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208

```
50000
cos and Kings:40000
```

4. Space_Character_Count

```java
11          int flag=0;
12          int prev=1000;
13          char res='\0';
14          for(int i=0;i<str.length();i++)
15          {
16              char ch=str.charAt(i);
17
18              if((ch=='a' || ch=='e' || ch=='i' || ch=='o' || ch=='u') && ((int)ch)<prev)
19              {
20                  prev=(int)ch;
21                  res=ch;
22                  flag=1;
23              }
24
25          }
26          if(flag==1)
27              System.out.println(res);
28          else
29              System.out.println("Vowel do not exist");
30
31      }
32
33 }
34
```

🔲 Problems @ Javadoc 🔲 Declaration 🔲 Console ×

<terminated> Space_Character_Count [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.

```
Enter Input: matrix
a
```

5. Reverse_String

```java
1 package com.package2;
2
3 import java.util.Scanner;
4
5 public class Reverse_String {
6
7     public static void main(String[] args) {
8
9         Scanner sc=new Scanner(System.in);
10        System.out.print("Enter Input: ");
11        String str=sc.nextLine();
12
13        StringBuilder reversed = new StringBuilder();
14        for (int i=str.length()-1;i>=0;i--)
15        {
16            char ch=Character.toLowerCase(str.charAt(i));
17            reversed.append(ch);
18        }
19        System.out.println(reversed);
20    }
21
22 }
23
```

Problems @ Javadoc 📝 Declaration 🖥 Console ✕

<terminated> Reverse_String [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0

```
Enter Input: WelCome
emoclew
```

6. Reverse_Number

```java
1 package com.package2;
2
3 import java.util.Scanner;
4
5 public class Reverse_Number {
6
7     public static void main(String[] args) {
8
9
10        Scanner sc=new Scanner(System.in);
11        System.out.print("Enter Input: ");
12        int num=sc.nextInt();
13        int reversed=0;
14        while(num!=0){
15            int digit=num%10;
16            reversed=reversed*10+digit;
17            num/=10;
18        }
19        System.out.println(reversed);
20    }
21
22 }
23
```

Problems @ Javadoc 📝 Declaration 🖥 Console ✕

<terminated> Reverse_Number [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v202

```
Enter Input: 12345
54321
```

7. Perfect_Square

```java
1 package com.package2;
2
3 import java.util.Scanner;
4
5 public class Perfect_Number {
6
7     public static void main(String[] args) {
8         Scanner sc=new Scanner(System.in);
9         System.out.print("Enter Input: ");
10        int num=sc.nextInt();
11
12        if(num>0) {
13            int sqrt=(int)Math.sqrt(num);
14            if(sqrt*sqrt==num)
15                System.out.println("TRUE");
16            else
17                System.out.println("FALSE");
18        }
19
20    }
21
22 }
23
```

Problems @ Javadoc Declaration Console ×

<terminated> Perfect_Number [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\j

```
Enter Input: 9
TRUE
```

8. Associate_For_Given_Technology

Vowels_Conso... Solution.java Space_Chara... Sim.java SolutionSim.... Reverse_Str... Reverse_Numb... Perfect_Numb... Associate

```java
1 package com.package2;
2 import java.util.*;
3
4 import com.package2.Associate;
5 public class Solution_Associate {
6
7     private static final int NULL = 0;
8
9     public static Associate[] associatesForGivenTechnology(Associate ass[], String searchTech) {
10        List<Associate> res=new ArrayList<>();
11        for(int i=0;i<ass.length;i++)
12        {
13            if(searchTech.equalsIgnoreCase(ass[i].getTechnology()) && ass[i].getExperienceInYears()%5==0)
14            {
15                res.add(ass[i]);
16            }
17        }
18
19        return res.toArray(new Associate[0]);
20    }
21
22    public static void main(String[] args) {
23        Scanner sc=new Scanner(System.in);
24            Associate ass1=new Associate(101,"Alex","java",15);
```

Problems @ Javadoc Declaration Console ×

<terminated> Solution_Associate [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javav

```
java
101
104
```

9. Autonomous car

```
47          }
48          String searchEnv = sc.nextLine();
49          String searchBrand = sc.nextLine();
50
51          int total=findTestPassedByEnv(cars,searchEnv);
52          if(total>0) {
53              System.out.println(total);
54          }
55          else {
56              System.out.println("There are no tests passed in this particular environment");
57          }
58
59
60          AutonomousCar carWithUpdatedGrade=updateCarGrade(cars, searchBrand);
61          if (carWithUpdatedGrade!=null) {
62              System.out.println(carWithUpdatedGrade.getBrand()+ ":" + carWithUpdatedGrade.getGrade());
63          } else {
64              System.out.println("No Car is available with the specified brand");
65          }
66
67
68
69
70      }
```

Problems @ Javadoc Declaration Console ×

<terminated> SolutionCar [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\ja
```
1000
4000
desert
desert
Mercedez
4000
Mercedez:A1
```

10. OddPositionCharacter

Vowels_Conso... Reverse_Str... Reverse_Numb... Perfect_Numb... Associate.java Solutic

```java
1 package com.package2;
2
3 import java.util.Scanner;
4
5 public class OddPositionCharacter {
6
7     public static void main(String[] args) {
8         Scanner sc=new Scanner(System.in);
9         String str=sc.nextLine();
10        for (int i=1;i<str.length();i+=2) {
11            System.out.print(str.charAt(i));
12        }
13
14    }
15
16 }
17
```

Problems @ Javadoc Declaration Console ×

<terminated> OddPositionCharacter [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotsp
```
Hey there!
e hr!
```

11. Data Transmission

```java
 3 import java.util.ArrayList;
 4 import java.util.Collections;
 5 import java.util.List;
 6 import java.util.Scanner;
 7
 8 public class Data_Transmission {
 9     public static boolean isPrime(int number) {
10         if (number<=1) {
11             return false;
12         }
13         for(int i=2;i<=Math.sqrt(number);i++) {
14             if(number%i==0) {
15                 return false;
16             }
17         }
18         return true;
19     }
20
21
22     public static void main(String[] args) {
23         Scanner sc=new Scanner(System.in);
24         String input=sc.nextLine();
25         input=input.replace(";", "");
26         String stringNum[]=input.split(" ");
```

Problems @ Javadoc Declaration Console ×

<terminated> Data_Transmission [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\
233 2435 1123 109 103 4434 2347 993 880 1117 1801 991;
1809

12. Last_Character_In_Every_Word

```java
 7         String input=sc.nextLine();
 8         String str[]=input.split("\\s+");
 9         StringBuilder r=new StringBuilder();
10         for(String w:str)
11         {
12             char l='\0';
13             for (int i=w.length()-1;i>= 0; i--) {
14                 char ch=w.charAt(i);
15                 if(Character.isDigit(ch)) {
16                     break;
17                 }
18                 l=ch;
19                 break;
20             }
21
22             if(l!='\0') {
23                 r.append(l);
24             }
25         }
26         System.out.println(r);
27     }
28
29 }
30
```

Problems @ Javadoc Declaration Console ×

<terminated> LastCharacterOfWords [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.w
 Hey3 Java   Learners
as

13. Device_Management

```java
32          }
33
34          Phone phone=getPhoneIdBasedOnOs(ph,os);
35          if(phone!=null)
36          {
37              System.out.println(phone.getPhoneId());
38          }
39          else
40          {
41              System.out.println("No phones are available ");
42          }
43
44      }
45
46      private static Phone getPhoneIdBasedOnOs(Phone[] ph, String os) {
47          for(Phone phone:ph)
48          {
49              if(phone.getOs().equalsIgnoreCase(os) && phone.getPrice()>=50000)
50              {
51                  return phone;
52              }
```

Problems Javadoc Declaration Console ×

<terminated> SolutionPhone [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-

```
HTC
89000
444
Android
Vivo
42000
Blackberry
android
The given Brand is not available
222
```

14. Institution

```java
42      }
43
44      private static Institution updateInstitutionGrade(Institution[] institutions, String institutionName) {
45          for (Institution i:institutions) {
46              if (i.getInstitutionName().equalsIgnoreCase(institutionName)) {
47                  int rating=(i.getNoOfStudentsPlaced()*100)/i.getNoOfStudentsCleared();
48                  if(rating>=80)
49                  {
50                      i.setGrade("A");
51                  } else
52                  {
53                      i.setGrade("B");
54                  }
55                  return i;
56              }
57          }
58          return null;
```

Problems Javadoc Declaration Console ×

<terminated> SolutionInstition [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe

```
Coimbatore
333
AppleTech
10000
12000
Chennai
444
Aruna
6000
10000
Vellore
Chennai
karunya
22000
karunya:A
```

15. Inventory

```
23          for (Inventory inv : result) {
24              int threshold = inv.getThreshold();
25              String fillingType;
26              if(threshold>75)
27              {
28                  fillingType = "Critical Filling";
29              }
30              else
31              if(threshold>=50) {
32                  fillingType="Moderate Filling";
33              }
34              else
35              {
36                  fillingType="Non-Critical Filling";
37              }
38              System.out.println(inv.getInventoryId()+" "+fillingType);
39          }
```

Problems @ Javadoc Declaration Console ×

<terminated> SolutionInventory [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208

```
200
60
40
3
150
35
45
4
80
45
40
45
2 Non-Critical Filling
3 Non-Critical Filling
4 Non-Critical Filling
```

16. Medicine_get_price_by_disesse

```
13          return prices;
14      }
15
16
17      public static void main(String[] args) {
18          Scanner sc=new Scanner(System.in);
19          Medicine[] m=new Medicine[4];
20          for (int i=0;i<4;i++)
21          {
22              String medicineName=sc.nextLine();
23              String batch=sc.nextLine();
24              String disease=sc.nextLine();
25              int price=sc.nextInt();
26              sc.nextLine();
27              m[i]=new Medicine(medicineName,batch,disease,price);
28          }
29          String disease=sc.nextLine();
```

Problems @ Javadoc Declaration Console ×

<terminated> SolutionMedicine [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (31

```
paracetomol
PAC545B
bodypain
150
almox
ALM747S
fever
200
aspirin
ASP849Q
flue
250
fever
100
200
```

17. Movie_Find_Avg_Budget_By_Director

```java
42          int sumBudget = 0;
43          int count = 0;
44          for (Movie1 movie : movieArray) {
45              if (movie.getDirector().equalsIgnoreCase(director)) {
46                  sumBudget += movie.getBudget();
47                  count++;
48              }
49          }
50          if (count == 0) {
51              return 0;
52          }
53          return (double) sumBudget / count;
54      }
55
56      public static Movie1 getMovieByRatingBudget(Movie1[] movieArray, int rating, int budget) {
57          for (Movie1 movie : movieArray) {
58              if (movie.getRating() == rating && movie.getBudget() == budget) {
59                  if (budget % rating == 0) {
60                      return movie;
61                  }
62              }
63          }
64          return null;
65      }
```

Problems @ Javadoc ⚠ Declaration ▣ Console ✕

\<terminated\> SolutionMovie1 [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\ja

```
5
300
GVM
5
300
200
1401
```

18. Movie_Get_Movie_By_Genre

```java
39      }
40
41  }
42  }
43  /*
44   * aaa
45      Marvel
46      Action
47      250000000
48      bbb
49      Marvel
50      Comedy
51      25000000
52      ccc
53      Marvel
54      Comedy
55      2000000
56      ddd
57      Marvel
58      Action
59      300000000
60      Action*/
61
```

Problems @ Javadoc ⚠ Declaration ▣ Console ✕

\<terminated\> SolutionMovie [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bi

```
ddd
Marvel
Action
300000000
Action
High Budget Movie
High Budget Movie
```

19. NavalVessel

```java
41          int sumVoyages = 0;
42          int count = 0;
43          for (NavelVessel vessel : vessels) {
44              int pct = (vessel.getNoOfVoyagesCompleted() * 100) / vessel.getNoOfVoyagesPlanned();
45              if (pct >= percentage) {
46                  sumVoyages += vessel.getNoOfVoyagesCompleted();
47                  count++;
48              }
49          }
50          if (count == 0) {
51              return 0;
52          }
53          return (double) sumVoyages / count;
54      }
55
56      public static NavelVessel findVesselByGrade(NavelVessel[] vessels, String purpose) {
57          for (NavelVessel vessel : vessels) {
58              if (vessel.getPurpose().equalsIgnoreCase(purpose)) {
59                  int pct = (vessel.getNoOfVoyagesCompleted() * 100) / vessel.getNoOfVoyagesPlanned();
60                  if (pct == 100) {
61                      vessel.setClassification("Star");
62                  } else if (pct >= 80) {
63                      vessel.setClassification("Leader");
```

Problems @ Javadoc Declaration Console ×

<terminated> SolutionVessel [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.e

```
500
500
Welfare
75
Army
300
Yashwin%Inspirer
```

20. Player_Get_Average_of_Runs

```java
10          for (int i=0;i<4;i++) {
11              int id=sc.nextInt();
12              sc.nextLine();
13              String name=sc.nextLine();
14              int iccRank=sc.nextInt();
15              int matchesPlayed=sc.nextInt();
16              int runsScored=sc.nextInt();
17              players[i]=new Player(id, name, iccRank, matchesPlayed, runsScored);
18          }
19
20          int target=sc.nextInt();
21          double[] averageRuns=findAverageOfRuns(players, target);
22
23          for (double avg:averageRuns) {
24              if (avg >= 80 && avg <= 100) {
25                  System.out.println("Grade A");
26              } else if (avg >= 50 && avg < 80) {
27                  System.out.println("Grade B");
28              } else {
29                  System.out.println("Grade C");
30              }
31          }
32      }
```

Problems @ Javadoc Declaration Console ×

<terminated> SolutionPlayer [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.

```
15
57
4400
100
Grade A
Grade A
Grade B
```

21. Player_Get_Player_Based_On_Level

```java
1 package com.package2;
2 import java.util.*;
3 public class SolutionPlayer1 {
4     public static void main(String[] args) {
5         Scanner sc=new Scanner(System.in);
6         Player1[] players = new Player1[4];
7
8         for (int i=0;i<4;i++) {
9             int playerId=sc.nextInt();
10            sc.nextLine();
11            String skill=sc.nextLine();
12            String level=sc.nextLine();
13            int points=sc.nextInt();
14            players[i]=new Player1(playerId, skill, level, points);
15        }
16
```

Problems @ Javadoc Declaration Console ✕

\<terminated\> SolutionPlayer1 [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1

```
102
Cricket
Intermediate
25
111
Football
Intermediate
50
113
BaseBall
Advanced
100
Cricket
Intermediate
45
102
```

22. Sim_Transfer_Circle

```java
24        Sim[] result = transferCircle(sims, circle1, circle2);
25        for (Sim sim : result) {
26            System.out.println(sim.getSimId() + " " + sim.getCustomerName() + " " + sim.getCircle() + " " + sim.ge
27        }
28    }
29
30    public static Sim[] transferCircle(Sim[] sims, String circle1, String circle2) {
31        ArrayList<Sim> matchingSims = new ArrayList<>();
32
33        for (Sim sim : sims) {
34            if (sim.getCircle().equalsIgnoreCase(circle1)) {
35                matchingSims.add(new Sim(sim.getSimId(), sim.getCustomerName(), sim.getBalance(), sim.getRatePerSe
36            }
37        }
38
39        matchingSims.sort(Comparator.comparingDouble(Sim::getRatePerSecond).reversed());
```

Problems @ Javadoc Declaration Console ✕

\<terminated\> SolutionSim [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (31-May

```
4
shubham
640
3.21
ahd
5
kalpesh
150
1.8
ahd
ahd
kol
4 shubham kol 3.21
2 sachin kol 2.26
5 kalpesh kol 1.8
```

23. SmallestVowelFinder

```java
package com.package2;

import java.util.Scanner;

public class SmallestVowelFinder {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.println("Enter a string:");
        String input = scanner.nextLine().toLowerCase();
        char smallestVowel = findSmallestVowel(input);
        System.out.println("The smallest vowel in the given string is: " + smallestVo
    }

    public static char findSmallestVowel(String str) {
        char smallestVowel = Character.MAX_VALUE;
```

Problems @ Javadoc Declaration Console ×

<terminated> SmallestVowelFinder [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_

```
Enter a string:
matrix
The smallest vowel in the given string is: a
```

24. Sim_Match_Sort

```java
        String searchCircle= sc.nextLine();
        double searchRate=sc.nextDouble();

        int[] resultIds=matchAndSort(sims, searchCircle, searchRate);
        for (int id : resultIds) {
            System.out.println(id);
        }
}

public static int[] matchAndSort(Sim1[] sims, String searchCircle, double searchRate) {

    Sim1[] filteredSims = Arrays.stream(sims)
                               .filter(sim -> sim.getCircle().equalsIgnoreCase(searchCircle) && sim.getRatePerSec
                               .toArray(Sim1[]::new);
```

Problems @ Javadoc Declaration Console ×

<terminated> SolutionSim1 [Java Application] C:\Users\HP\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (31-May-2

```
airtel
500
2.54
mumbai
4
vodafone
640
3.21
mumbai
mumbai
3.4
4
3
1
2
```