1.Float Formation 1

```
Import java.io.*;
Import java.util.*;
Public class Solution {
   Public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      Float f = sc.nextFloat();
      Sc.close();
      System.out.printf("%.6f%n", f);
      System.out.printf("%.4f%n", f);
      System.out.printf("%.2f%n", f);
      System.out.println(Math.round(f));
   }
}
```

2.PROFIT CALCULATOR 1

```
Import java.io.*;
Import java.util.*;
Public class Solution {
   Public static void main(String[] args) {
      Scanner sc = new Scanner(System.in);
      Int x = sc.nextInt();
```

```
    Int a = sc.nextInt();
    Int b = sc.nextInt();
    Int profit = (x * a) – (x * b) – 100;
    System.out.println(“Number of copies sold:” + x);
    System.out.println(“Cost of each copy:” + a);
    System.out.println(“Cost spent by agency on each newspaper:”
+ b);
    System.out.println(“The profit obtained is Rs.” + profit + “.00”);
    Sc.close();
  }
}
```

3.THREE IDIOTS 2

```
Import java.io.*;
Import java.util.*;
Public class Solution {
  Public static void main(String[] args) {
    Scanner sc = new Scanner(System.in);
    Double x1 = sc.nextDouble();
    Double y1 = sc.nextDouble();
    Double x2 = sc.nextDouble();
    Double y2 = sc.nextDouble();
```

```
    Sc.close();
    Double midX = (x1 + x2) / 2.0;
    Double midY = (y1 + y2) / 2.0;
    System.out.printf("Binoy's house is located at (%.1f,%.1f)%n",
midX, midY);
  }
}
```

4.Alice in wonderland 6

```
Import java.io.*;
Import java.util.*;
Public class Solution {
  Public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    Int twoDigitNumber = scanner.nextInt();
    Scanner.close();
    Int firstDigit = twoDigitNumber / 10;
    Int secondDigit = twoDigitNumber % 10;
    Int sumOfDigits = firstDigit + secondDigit;
    System.out.println("Bird said:" + twoDigitNumber);
    System.out.println("Alice must go in path-" + sumOfDigits);
  }
```

```
}
```

5.Area and Perimeter of Triangle. 1

```
Import java.util.Scanner;
Public class Solution {
   Public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      Int base = scanner.nextInt();
      Int height = scanner.nextInt();
      Int side1 = scanner.nextInt();
      Int side2 = scanner.nextInt();
      Int side3 = scanner.nextInt();
      Scanner.close();
      Double area = 0.5 * base * height;
      Double perimeter = side1 + side2 + side3;
      System.out.printf(“Area of Triangle is %.2f\n”, area);
      System.out.printf(“Perimeter of Triangle is %.2f\n”, perimeter);
   }
}
```

6.Time 24

```
Import java.io.*;
Import java.util.*;
```

```
Public class Solution {
   Public static void main(String[] args) {
      Scanner scan = new Scanner(System.in);
      Int hours = scan.nextInt();
      Int minutes = scan.nextInt();
      Int seconds = scan.nextInt();
      Scan.close();
      Int totalSeconds = (hours * 3600) + (minutes * 60) + seconds;
      Int finalHours = totalSeconds / 3600;
      Int remainingSecondsAfterHours = totalSeconds % 3600;
      Int finalMinutes = remainingSecondsAfterHours / 60;
      Int finalSeconds = remainingSecondsAfterHours % 60;
      System.out.println("Total Number of hours is " + finalHours);
      System.out.println("Total Number of minutes is " +
finalMinutes);
      System.out.println("Total Number of seconds is " +
finalSeconds);
   }
}
```

7.Largest of Three Numbers 12

```
Import java.util.Scanner;
Public class LargestOfThree {
```

```
  Public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    Int a = scanner.nextInt();
    Int b = scanner.nextInt();
    Int c = scanner.nextInt();
    If (a >= b) {
      If (a >= c) {
        System.out.println(“a is largest then b and c”);
      } else {
        System.out.println(“c is largest then a and b”);
      }
    } else {
      If (b >= c) {
        System.out.println(“b is largest then a and c”);
      } else {
        System.out.println(“c is largest then a and b”);
      }
    }
    Scanner.close();
  }
}
```

8.Check if given number is palindrome

```
Import java.util.Scanner;
Public class PalindromeCheck {
   Public static void main(String[] args) {
      Scanner scanner = new Scanner(System.in);
      Int num = scanner.nextInt();
      If (num < 100 || num > 999) {
         System.out.println(“Invalid Input”);
      } else {
         Int original = num;
         Int reversed = 0;
         While (num != 0) {
            Int digit = num % 10;
            Reversed = reversed * 10 + digit;
            Num /= 10;
         }
         If (original == reversed) {
            System.out.println(“palindrome”);
         } else {
            System.out.println(“not palindrome”);
         }
```

```
        }
        Scanner.close();
    }
}
```