```
class Parent {
                                                                                  java -cp /tmp/LHJsjaYp0X/Main
   int a, b;
                                                                                  a = 10, b = 15
                                                                                  a = 20, b = 25
   Parent() {
       a = 10;
                                                                                  === Code Execution Successful ===
       b = 15;
   Parent(int x, int y) {
       a = x;
       b = y;
   void disp() {
       System.out.println("a = " + a + ", b = " + b);
   }
public class Main {
   public static void main(String[] args) {
       Parent obj1 = new Parent();
       obj1.disp();
       Parent obj2 = new Parent(20, 25);
       obj2.disp();
   }
```

```
java -cp /tmp/53zhICOHo3/Main
class Parent {
    void even() {
                                                                                    2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
        for (int i = 1; i \le 20; i++) {
                                                                                    1 3 5 7 9 11 13 15 17 19 21 23 25 27 29
                                                                                    2 3 5 7 11 13 17 19 23 29
            if (i % 2 == 0) System.out.print(i + " ");
        System.out.println();
                                                                                    === Code Execution Successful ===
    }
    void odd() {
        for (int i = 1; i \le 20; i^{++}) {
            if (i % 2 != 0) System.out.print(i + " ");
        System.out.println();
    }
    void prime() {
        for (int i = 1; i \le 20; i++) {
            if (isPrime(i)) System.out.print(i + " ");
        }
        System.out.println();
    }
    boolean isPrime(int num) {
        if (num <= 1) return false;
        for (int i = 2; i \leftarrow Math.sqrt(num); i++) {
            if (num % i == 0) return false;
        }
        return true;
}
class Child extends Parent {
   @Override
    void even() {
```

```
2- public class CollegeUsers {
                                                                                      Enter the number of student users: 100
3 =
       public static void main(String[] args) {
                                                                                      Enter the number of staff users: 30
4
           Scanner scanner = new Scanner(System.in);
                                                                                      Number of student users: 100
5
                                                                                      Number of staff users: 30
6
           System.out.print("Enter the number of student users: ");
                                                                                      Number of non-teaching staff users: 10
7
            int studentUsers = scanner.nextInt();
                                                                                      Total number of users: 140
8
9
           System.out.print("Enter the number of staff users: ");
                                                                                      === Code Execution Successful ===
10
           int staffUsers = scanner.nextInt();
11
           int nonTeachingStaffUsers = staffUsers / 3;
12
13
14
           int totalUsers = studentUsers + staffUsers + nonTeachingStaffUsers;
15
           System.out.println("Number of student users: " + studentUsers);
16
17
            System.out.println("Number of staff users: " + staffUsers);
            System.out.println("Number of non-teaching staff users: " +
               nonTeachingStaffUsers);
19
            System.out.println("Total number of users: " + totalUsers);
20
21 }
```

java -cp /tmp/Y8MJeBippk/CollegeUsers

1 - import java.util.Scanner;