```java
// 1. (a)Calculate the percentage secured by the student given 6 subjects
marks
// 1. (b)Check the division secured by the student 0-39 percent fail 40-49
second class 60-74 first class 75 are distinction.

import java.util.Scanner;

public class student {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);

        // Array to hold marks of 6 subjects
        int[] marks = new int[6];
        int totalMarksObtained = 0;
        int totalMarksPossible = 600; // Assuming each subject is out of 100

        // Input marks for 6 subjects
        System.out.println("Enter the marks obtained in 6 subjects (out of
100):");
        for (int i = 0; i < 6; i++) {
            System.out.print("Subject " + (i + 1) + ": ");
            marks[i] = scanner.nextInt();
            totalMarksObtained += marks[i]; // Sum the marks
        }

        // Calculate percentage
        double percentage = (double) totalMarksObtained / totalMarksPossible *
100;
        System.out.printf("Percentage secured: %.2f%%\n", percentage);

        // Determine division
        String division;
        if (percentage < 40) {
            division = "Fail";
        }

        else if (percentage >= 40 && percentage < 60) {
            division = "Second Class";
        }

        else if (percentage >= 60 && percentage < 75) {
            division = "First Class";
        }

        else {
            division = "Distinction";
        }
```

```java
        System.out.println("Division secured: " + division);

        // Close the scanner
        scanner.close();
    }
}
```

Output: --

```
Enter the marks obtained in 6 subjects (out of 100):
Subject 1: 90
Subject 2: 80
Subject 3: 70
Subject 4: 80
Subject 5: 70
Subject 6: 60
Percentage secured: 75.00%
Division secured: Distinction
PS D:\2MCA\JAVA>
```

```java
// 2. (a)Generate odd numbers from 100 to 500.
// 2. (b)Print any table and add
//          2*1 = 2
//          2*2 = 4
//          sum of products

public class table {
    public static void main(String[] args) {
        // Part (a): Generate odd numbers from 100 to 500
        System.out.println("Odd numbers from 100 to 500:");
        for (int i = 101; i <= 500; i += 2) {
            System.out.print(i + " ");
        }
        System.out.println(); // New line for better readability

        // Part (b): Print the multiplication table for 2
        int number = 2;
        int sumOfProducts = 0;

        System.out.println("Multiplication table for " + number + ":");
        for (int i = 1; i <= 10; i++) {
            int product = number * i;
            System.out.println(number + " * " + i + " = " + product);
            sumOfProducts += product; // Accumulate the sum of products
        }

        // Print the sum of products
        System.out.println("Sum of products: " + sumOfProducts);
    }
}
```

Output : --

```
Odd numbers from 100 to 500:
101 103 105 107 109 111 113 115 117 119 121 123 125 127 129 131 133 135 137 139 141 143 145 147 149 151 153 155 157 159 161 163 165 167 169
171 173 175 177 179 181 183 185 187 189 191 193 195 197 199 201 203 205 207 209 211 213 215 217 219 221 223 225 227 229 231 233 235 237 239
241 243 245 247 249 251 253 255 257 259 261 263 265 267 269 271 273 275 277 279 281 283 285 287 289 291 293 295 297 299 301 303 305 307 309
311 313 315 317 319 321 323 325 327 329 331 333 335 337 339 341 343 345 347 349 351 353 355 357 359 361 363 365 367 369 371 373 375 377 379
381 383 385 387 389 391 393 395 397 399 401 403 405 407 409 411 413 415 417 419 421 423 425 427 429 431 433 435 437 439 441 443 445 447 449
451 453 455 457 459 461 463 465 467 469 471 473 475 477 479 481 483 485 487 489 491 493 495 497 499
Multiplication table for 2:
2 * 1 = 2
2 * 2 = 4
2 * 3 = 6
2 * 4 = 8
2 * 5 = 10
2 * 6 = 12
2 * 7 = 14
2 * 8 = 16
2 * 9 = 18
2 * 10 = 20
Sum of products: 110
PS D:\2MCA\JAVA>
```