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Que 1)

Output:

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que1.java

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que1

Enter the first number :

10

Enter the second number :

11

Sum of two numbers : 21

Multiplication of two numbers : 110

Division of two numbers : 0

Remainder of two numbers : 10

Que 2)

Output:

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que2.java

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que2

Enter the five numbers :

1

2

3

4

5

The average of 5 numbers are : 3.0

Que 3)

Output:

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que3.java

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que3

Enter a decimal number :

233

Binary : 11101001

Que 4)

Output:

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que4.java

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que4

Enter a binary number :

1011

Decimal : 11

Que5)

Output:

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que5.java

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que5

Enter a number :

12345

The sum of the digits are : 15

Que6)

Output:

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que6.java

(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que6

Enter the first number :

11

Enter the second number :

21

First number is smaller than second number

Que7)**Output:**

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que7.java
```

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que7
```

```
Enter a string :
```

```
Hello _Anna2 @23
```

```
Letters : 9
```

```
Digits : 3
```

```
Spaces : 4
```

```
Other characters : 2
```

Que8)**Output:**

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que8.java
```

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que8
```

```
Even numbers from 1 to 20 :
```

```
2
```

```
4
```

```
6
```

```
8
```

```
10
```

```
12
```

```
14
```

```
16
```

```
18
```

```
20
```

```
Odd numbers from 1 to 20 :
```

```
1
```

```
3
```

```
5
```

```
7
```

```
9
```

```
11
```

```
13
```

```
15
```

```
17
```

```
19
```

Que9)**Output:**

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que9.java
```

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que9
```

```
The sum of the first 100 prime numbers is: 24133
```

Que10)**Output:**

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que10.java
```

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que10
```

```
Original Array : [10, 20, 30]
```

```
New Array : [30, 20, 10]
```

Que11)**Output:**

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que11.java
```

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que11
```

```
Enter size of array :
```

```
5
```

```
Enter 5 integer(s):
```

```
2
```

```
6
```

```
8
```

```
5
```

```
9
```

```
Number of Even elements: 3
```

```
Number of Odd elements: 2
```

Que12)**Output:**

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que12.java
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que12
Enter a number:
121
121 is a palindrome.
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que12
Enter a number:
1234
1234 is not a palindrome.
```

Que13)**Output:**

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que13.java
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que13
Enter the first number : 10
Enter the second number : 11
Sum = 21
```

Que14)**Output:**

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que14.java
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que14
Enter a positive number:
2332003
Sum of digits = 13
```

Que15)**Output:**

```
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % javac que15.java
(base) shreeya@Shreeyas-MacBook-Air Java_Labs % java que15
Enter the matrix size : 3
Enter elements of 3x3 matrix:
1
2
3
4
5
6
7
8
9
Sum of principal & secondary diagonals = 25
```