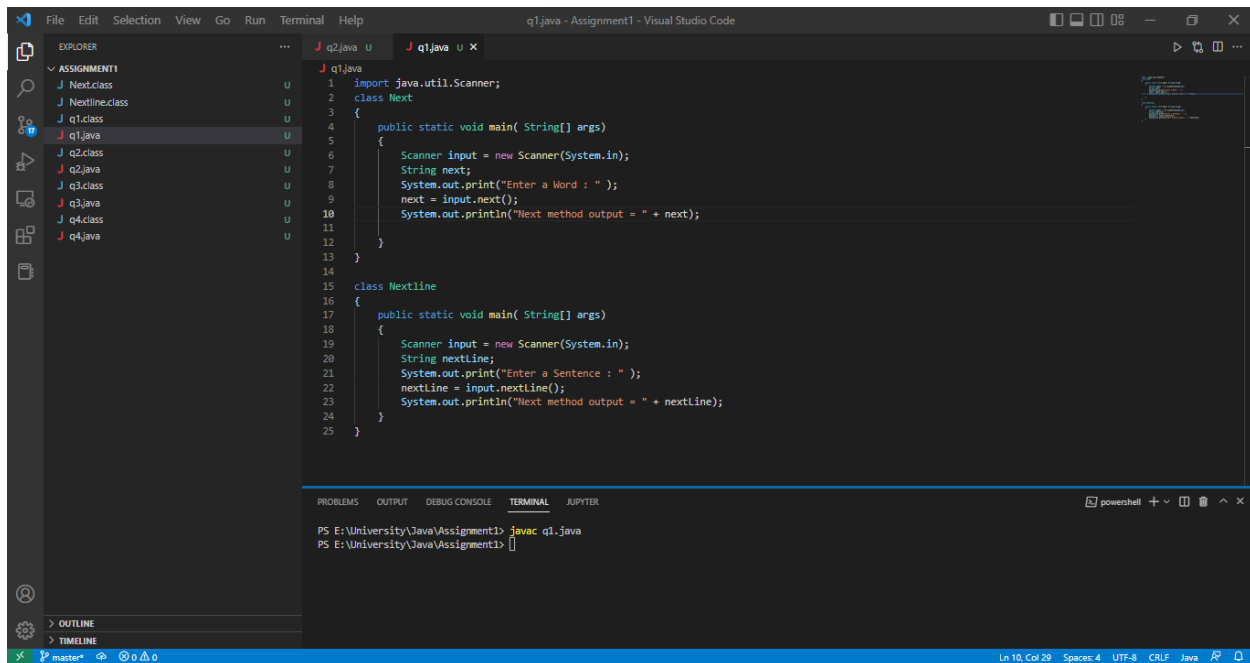


|                       |                                    |
|-----------------------|------------------------------------|
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| <b>Program:</b>       | <b>BSCS7A</b>                      |
| <b>Course:</b>        | <b>Modern Programming Language</b> |
| <b>Assignment No:</b> | <b>01</b>                          |
| <b>Teacher Name:</b>  | <b>Mr. Saeed Nawaz</b>             |

Q1:

**Next () Method** used to get 1 word when we write long sentence with spaces it will store only first word in string variable and discard all other words.

**Next Line () Method** unlike next method it does not store only first word by this method we can store whole sentence in a string variable.



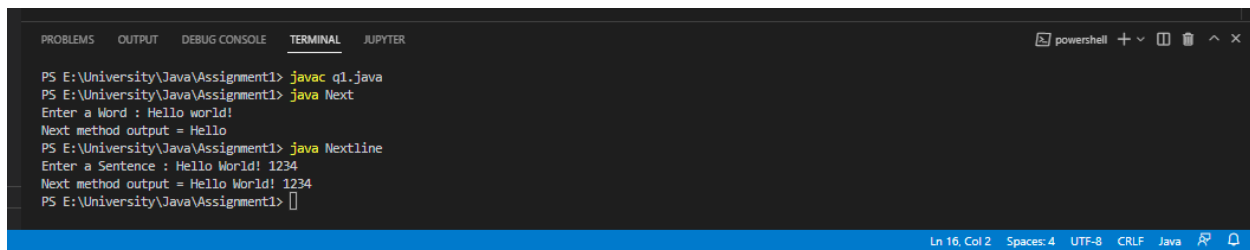
The screenshot shows the Visual Studio Code editor with the file explorer on the left. The file explorer shows a project named 'ASSIGNMENT1' with files 'Next.class', 'Nextline.class', 'q1.class', 'q1.java', 'q2.class', 'q2.java', 'q3.class', 'q3.java', 'q4.class', and 'q4.java'. The main editor window shows the source code for 'q1.java'. The code defines a 'Next' class with a 'main' method that uses 'Scanner' to read a word and print it. It also defines a 'Nextline' class with a 'main' method that uses 'Scanner' to read a line and print it. The terminal at the bottom shows the command 'javac q1.java' and the output of running the 'Next' and 'Nextline' classes.

```
1 import java.util.Scanner;
2 class Next
3 {
4     public static void main( String[] args)
5     {
6         Scanner input = new Scanner(System.in);
7         String next;
8         System.out.print("Enter a Word : " );
9         next = input.next();
10        System.out.println("Next method output = " + next);
11    }
12 }
13
14
15 class Nextline
16 {
17     public static void main( String[] args)
18     {
19         Scanner input = new Scanner(System.in);
20         String nextline;
21         System.out.print("Enter a Sentence : " );
22         nextline = input.nextline();
23         System.out.println("Next method output = " + nextline);
24     }
25 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

PS E:\University\Java\Assignment1> javac q1.java  
PS E:\University\Java\Assignment1>

Q2:



The screenshot shows the terminal output of the Java program. It shows the command 'javac q1.java' and the output of running the 'Next' and 'Nextline' classes. The 'Next' class outputs 'Hello world!' and the 'Nextline' class outputs 'Hello World! 1234'.

```
PS E:\University\Java\Assignment1> javac q1.java
PS E:\University\Java\Assignment1> java Next
Enter a Word : Hello world!
Next method output = Hello
PS E:\University\Java\Assignment1> java Nextline
Enter a Sentence : Hello World! 1234
Next method output = Hello World! 1234
PS E:\University\Java\Assignment1> 
```

Ln 16, Col 2 Spaces: 4 UTF-8 CRLF Java

```
J q2.java U X
J q2.java
1  import java.util.Scanner;
2  class q2
3  {
4      public static void main( String[] args)
5      {
6          Scanner input = new Scanner(System.in);
7          int number =0;
8          System.out.print("Enter a Number : " );
9          number = input.nextInt();
10     if(number%2==0)
11     {
12         System.out.printf(" Given number %d is  Even " , number);
13     }
14     else
15     {
16         System.out.printf(" Given number %d is  Odd " , number);
17     }
18
19
20 }
21 }
```

PROBLEMS   OUTPUT   DEBUG CONSOLE   TERMINAL   JUPYTER

```
PS E:\University\Java\Assignment1> javac q2.java
PS E:\University\Java\Assignment1> java q2
Enter a Number : 10
Given number 10 is  Even
PS E:\University\Java\Assignment1> java q2
Enter a Number : 5
Given number 5 is  Odd
PS E:\University\Java\Assignment1> |
```

Q3:

```
J q3.java U X
J q3.java
1  import java.util.Scanner;
2  class q3
3  {
4      public static void main( String[] args)
5      {
6          Scanner input = new Scanner(System.in);
7          int number1 , number2;
8          System.out.print("Enter 1st Number : " );
9          number1 = input.nextInt();
10         System.out.print("Enter 2nd Number : " );
11         number2 = input.nextInt();
12         if(number1>number2)
13         {
14             System.out.printf(" %d is greater than %d" , number1,number2);
15         }
16         else if(number1==number2)
17         {
18             System.out.printf(" Both numbers are equal");
19         }
20         else
21         {
22             System.out.printf(" %d is greater than %d" , number2,number1);
23         }
24
25
26     }
27 }

PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  JUPYTER

PS E:\University\Java\Assignment1> javac q3.java
PS E:\University\Java\Assignment1> java q3
Enter 1st Number : 25
Enter 2nd Number : 158
158 is greater than 25
PS E:\University\Java\Assignment1> |
```

Q4:

J q4.java U X

J q4.java

```
1  import java.util.Scanner;
2  class q4
3  {
4      public static void main( String[] args)
5      {
6          Scanner input = new Scanner(System.in);
7          int year =0;
8          System.out.print("Enter a year : " );
9          year = input.nextInt();
10     if(year%4==0&&year%100==0&&year%400==0)
11     {
12         System.out.printf("%d is  Leap year " , year);
13     }
14     else
15     {
16         System.out.printf("%d is  not a leap year " , year);
17     }
18
19
20     }
21 }
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL JUPYTER

```
PS E:\University\Java\Assignment1> java q4
Enter a year : 2000
2000 is  Leap year
PS E:\University\Java\Assignment1> java q4
Enter a year : 2021
2021 is  not a leap year
PS E:\University\Java\Assignment1> 
```