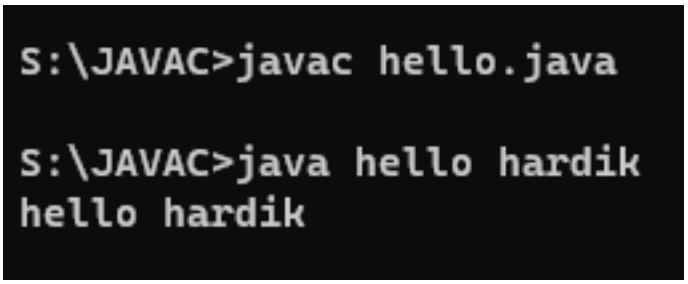
Experiment-1

Aim:

WRITE A PROGRAM print Hello with command line argument.

Solution:

```
class hello {
   public static void main(String[] args) {
         System.out.println("Hello " +args[0]);
         }
}
```



Experiment-2

Aim:

WRITE A PROGRAM implement String Functions.

Solution:

```
import java.util.Scanner;

        public class strn { public static void
        main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a string: ");
        String userString = scanner.nextLine();

        System.out.println("Length of String " + userString + " is: " +
userString.length());
        System.out.print("Enter the index for which you want index for:"); int
        userIndex = Integer.parseInt(scanner.nextLine());

        System.out.println("Character at " + userIndex + " in " + userString + " is
" + userString.charAt(userIndex));
        System.out.println(userString.replace("R","T"));
        }
}
```

```
S:\JAVAC>java strn
Enter a string: HARDIK
Length of String HARDIK is: 6
Enter the index for which you want index for:   3
Character at 3 in HARDIK isD
HATDIK
```

Experiment-3

Aim:

WRITE A PROGRAM find ASCII code of a given character.

Solution:

```
import java.util.Scanner;

        public class into {

        public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter a character: ");
        String userString = scanner.nextLine();
        char userChar = userString.charAt(0);
        int ascii = userChar;
        System.out.println("ASCII code of " + userChar + " is " + ascii);
        }
}
```

```
S:\JAVAC>javac into.java

S:\JAVAC>java into
Enter a character: H
ASCII code of H is 72
```

Experiment-4

Aim:

WRITE A PROGRAM swap two numbers using bitwise operator.

Solution:

```
import java.util.Scanner;

public class SwapBit {
   public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter first number: "); int
        num1 = Integer.parseInt(scanner.nextLine());
        System.out.print("Enter second number: "); int num2
              = Integer.parseInt(scanner.nextLine());

        System.out.println("Before swapping");
        System.out.println("First number = " + num1 +"\nSecond Number = " +
                        num2);

        num1 = num1 ^ num2; num2
        = num1 ^ num2; num1 =
        num1 ^ num2;
        System.out.println("After swapping");
         System.out.println("First number = " + num1 +"\nSecond Number = " +
        num2);
   }
}
```

```
S:\JAVAC>java swapbit
Enter first number: 2
Enter second number: 3
Before swapping
First number = 2
Second Number = 3
After swapping
First number = 3
Second Number = 2
```

Experiment-5

Aim:

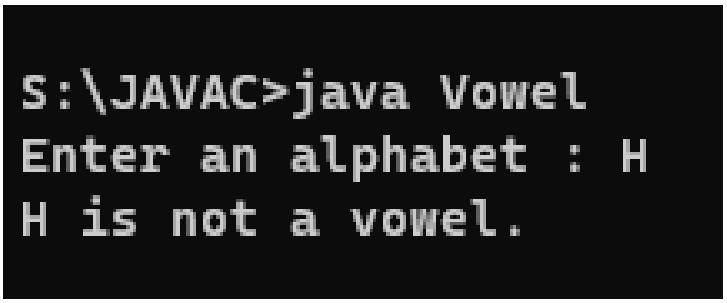
WRITE A PROGRAM check if a given alphabet is a vowel or not using switch statement.

Solution:

```
import java.util.Scanner;

public class Vowel { public static void
        main(String[] args) { Scanner scanner =
        new Scanner(System.in);
        System.out.print("Enter an alphabet : ");

        String input =
        scanner.nextLine(); switch
        (input.toLowerCase()) { case "a":
        case "e": case "i": case "o": case
        "u":
        {
                System.out.println(input + " is a vowel.");
        break; }
        default:
                System.out.println(input + " is not a vowel.");
        }
        }
}
```



Experiment-6

Aim:

WRITE A PROGRAM N prime numbers.

Solution:

```
import java.util.Scanner;

public class primeno{ public static void
        main(String[] args) {
                Scanner scanner = new Scanner(System.in);
                System.out.print("Prime Numbers till? "); int
                till = Integer.parseInt(scanner.nextLine());

                for(int i=1; i <=till; i++){
                        if(isPrime(i)) {
                                System.out.print(i + " ");
                        }
                } } static boolean
        isPrime(int n) {
        if(n==1||n==0) return false;

                for(int i = 2; i < n; i++){
                        if(n%i==0) return
                        false;
                 } return
                true;
        }
}
```

```
S:\JAVAC>javac primeno.java

S:\JAVAC>java primeno
Prime Numbers till? 50
2 3 5 7 11 13 17 19 23 29 31 37 41 43 47
```

Experiment-7

Aim:

WRITE A PROGRAM to check for leap year.

Solution:

```
import java.util.Scanner;

public class leapyear {

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

        System.out.println("Give a year:"); int userInput =
        Integer.valueOf(scanner.nextLine());

        if(userInput % 4 == 0 && userInput % 100 != 0) {
        System.out.println("The year is a leap year.");
        } else if (userInput % 100 == 0 && userInput % 400 == 0) {
        System.out.println("The year is a leap year.");
        } else {
        System.out.println("The year is not a leap year.");
        }

        }
}
```

```
S:\JAVAC>javac leapyear.java

S:\JAVAC>java leapyear
Give a year:
2023
The year is not a leap year.
```