

25. Write a Java program to print multiplication table of any number.

```
import java.util.Scanner;
public class Day7 {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a number to print multiplication table: ");
        int number=scan.nextInt();
        int product;
        for(int i=1;i<=10;i++){
            product=number*i;
            System.out.println(number+"x"+i+"="+product);
        }
    }
}
```

26. Write a Java program to count number of digits in a number

```
import java.util.Scanner;
public class Day7a {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a value: ");
        int value=scan.nextInt();
        int count=0;
        while(value!=0){
            value/=10;
            count+=1;
        }
        System.out.println("count of numbers: "+count);
    }
}
```

27. Write a Java program to find first and last digit of a number.

```
import java.util.Scanner;
public class Day7b {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a number");
        int number=scan.nextInt();
        int last=number%10;
        int count=0;
        while(number>0) {
            count=number;
            number /= 10;
        }
        System.out.println("first digit: "+count);
        System.out.println("last digit: "+last);
    }
}
```

30. Write a Java program to calculate sum of digits of a number

```
import java.util.Scanner;
public class Day7c {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter a number: ");
        int number = scan.nextInt();
        int sum = 0;
        while (number != 0) {
            sum = sum + number % 10;
            number/=10;
        }
        System.out.println("sum of digits: "+sum );
    }
}
```

31. Write a Java program to calculate product of digits of a number.

```
import java.util.Scanner;
public class Day7d {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a number: ");
        int number=scan.nextInt();
        int product=1;
        while(number!=0){
            product=product*(number%10);
            number/=10;
        }
        System.out.println("product of digits: "+product);
    }
}
```

66. Write a Java program to count total number of vowels and consonants in a string.

```
import java.util.Scanner;
public class Day7e {
    public static void main(String[] args) {
        Scanner scan = new Scanner(System.in);
        System.out.println("Enter a string: ");
        String str = scan.nextLine();
        int vcount = 0;
        int ccount=0;
        for (int i = 0; i <= str.length() - 1; i++) {
            char ch = str.charAt(i);
            if (ch >= 'a' && ch <= 'z' || ch >= 'A' && ch <= 'Z') {
                if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' || ch ==
'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U') {
                    vcount += 1;
                } else {
                    ccount+=1;
                }
            }
        }
        System.out.println("number of vowels are: "+vcount);
    }
}
```

```

        System.out.println("number of consonents are: "+ccount);
    }
}

```

65. Write a Java program to find total number of alphabets, digits or special character in a string.

```

import java.util.Scanner;
public class Day7f {
    public static void main(String[] args){
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a string");
        String str=scan.nextLine();
        int acount=0;
        int ncount=0;
        int scount=0;
        for(int i=0;i<str.length();i++){
            char ch=str.charAt(i);
            if(ch>='a'&&ch<='z' || ch>='A'&&ch<='Z'){
                acount+=1;
            }
            else if (ch>='0'&&ch<='9') {
                ncount+=1;
            }
            else{
                scount+=1;
            }
        }
        System.out.println("Number of alphabets are: "+account);
        System.out.println("Number of numbers are: "+ncount);
        System.out.println("Number of special characters are: "+scount);
    }
}

```

66. Write a Java program to count total number of vowels and consonants in a string.

```

import java.util.Scanner;
public class Day7g {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a string: ");
        String str=scan.nextLine();
        int ucount=0;
        int lcount=0;
        for(int i=0;i<str.length();i++){
            char ch=str.charAt(i);
            if(ch>='a'&&ch<='z'){
                lcount+=1;
            }
            else if(ch>='A'&&ch<='Z'){
                ucount+=1;
            }
        }
        System.out.println("Number of upper case are: "+ucount);
        System.out.println("Number of lower case are: "+lcount);
    }
}

```

```
}
```

34. Write a Java program to enter a number and print it in words.

```
import java.util.Scanner;
public class Day7h {
    public static void main(String[] args) {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter a number between 0to9 to print in word: ");
        int number =scan.nextInt();
        switch(number) {
            case 0:
                System.out.println("Zero");
                break;
            case 1:
                System.out.println("One");
                break;
            case 2:
                System.out.println("Two");
                break;
            case 3:
                System.out.println("Three");
                break;
            case 4:
                System.out.println("Four");
                break;
            case 5:
                System.out.println("Five");
                break;
            case 6:
                System.out.println("Six");
            case 7:
                System.out.println("Seven");
                break;
            case 8:
                System.out.println("Eight");
                break;
            case 9:
                System.out.println("Nine");
                break;
            default:
                throw new IllegalStateException("Unexpected value: " +number);
        }
    }
}
```