/*1.Write a java application to accept a number, calculate and display the sum of digits. */

```
import java.util.Scanner;
class SumDigit{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
int sum=0,d;
System.out.println();
System.out.print("Enter a number ::");
int num=s.nextInt();
//System.out.println(num);
int cnum=num;
while(cnum>0){
d=cnum%10;
sum=sum+d;
cnum=cnum/10;
}//Close of while
System.out.println("Sum of digits of given no. "+num+"="+sum);
}//Close of main
}//Close of class
```

//OUTPUT

```
Enter a number ::12345
Sum of digits of given no. 12345=15
```

/*2.Write a java application to accept a number, calculate and print the reverse of number. */

```
import java.util.Scanner;
class ReverseDigit{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
int rev=0,d;
System.out.println();
System.out.print("Enter a number ::");
int num=s.nextInt();
//System.out.println(num);
int cnum=num;
while(cnum>0){
d=cnum%10;
rev=rev*10+d;
cnum=cnum/10;
}//Close of while
System.out.println("Reverse of given no "+num+"="+rev);
}//Close of main
}//Close of class
```

//OUTPUT

```
Enter a number ::5465255
Reverse of given no 5465255=5525645
```

/*3.Write a java application to accept a number, calculate and print the sum and reverse of it's digits. */

```
import java.util.Scanner;
class SumReverseOfDigit{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
int d=0,sum=0,rev=0;
System.out.println();
System.out.print("Enter a number ::");
int num=s.nextInt();
//System.out.println(num);
int cnum=num;
while(cnum>0){
d=cnum%10;
sum=sum+d;
rev=rev*10+d;
cnum=cnum/10;
}//Close of while
System.out.println("Sum of digits of given no "+num+"="+sum);
System.out.println("Reverse of digits of given no "+num+"="+rev);
}//Close of main
}//Close of class
```

//OUTPUT

```
Enter a number ::4545652
```

Sum of digits of given no 4545652=31

Reverse of digits of given no 4545652=2565454

/*4.Write a java application to accept a number and display the count the digits of number. */

```
import java.util.Scanner;
class CountDigit{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
int count=0;
System.out.println();
System.out.print("Enter a number ::");
int num=s.nextInt();
//System.out.println(num);
int cnum=num;
while(cnum>0){
cnum=cnum/10;
count++;
}//Close of while
System.out.println("Count of digit of number "+num+"="+count);
}//Close of main
}//Close of class
```

//OUTPUT

```
Enter a number ::45869
```

Count of digit of number 45869=5

/*5.Write a java application to accept a 3-digit number, calculate and print the sum of it's digits.*/

```
import java.util.Scanner;
class Sum3Digit{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
int dctr=0,digit,sum=0;
System.out.println();
System.out.print("Enter a 3-digit number ::");
int num=s.nextInt();
//System.out.println(num);
int cnum=num;
while(cnum>0){
cnum=cnum/10;
dctr++;
}//close of while
if(dctr==3){
cnum=num;
while(cnum>0){
digit=cnum%10;
sum=sum+digit;
cnum=cnum/10;
}//Close of while
```

```
System.out.println("Sum of digits of given number "+num+"="+sum);
}//Close of if
else
System.out.println("Must enter a 3-digit number,try again!");
}//Close of main
}//Close of class
```

//OUTPUT

```
Enter a 3-digit number ::1234
Must enter a 3-digit number,try again!

Enter a 3-digit number ::258
Sum of digits of given number 258=15
```

/*6.Write a java application to accept a 5-digit number, calculate and print its sum of digits along with its reverse. */

```
import java.util.Scanner;
class SumReverse5Digit{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
int d,rev,sum,count;
rev=sum=count=0;
System.out.println();
System.out.print("Enter a 5-digit number ::");
int num=s.nextInt();
```

```
//System.out.println(num);
int cnum=num;
while(cnum>0){
cnum=cnum/10;
count++;
}Close of while
if(count==5){
cnum=num;
while(cnum>0){
d=cnum%10;
sum=sum+d;
rev=rev*10+d;
cnum=cnum/10;
}Close of while
System.out.println("Sum of digits of the given No. "+num+"="+sum);
System.out.println("Reverse of digits of the given No. "+num+"="+rev);
}Close of if
else
System.out.println("Must enter a 5-digit Number, try again!");
}//Close of main
}//Close of class
```


//OUTPUT

```
Enter a 5-digit number ::123654
Must enter a 5-digit Number, try again!
```

Enter a 5-digit number ::52143

Sum of digits of the given No. 52143=15

Reverse of digits of the given No. 52143=34125

/*7.Write a java application to accept a 7-digit number, calculate and print the sum of digits of alternate number. */

```
import java.util.Scanner;
class SumAlternate7Digit{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
int d,rev,sum,count;
rev=sum=count=0;
System.out.println();
System.out.print("Enter a 7-digit number ::");
int num=s.nextInt();
//System.out.println(num);
int cnum=num;
while(cnum>0){
cnum=cnum/10;
count++;}
if(count==7){
cnum=num;
while(cnum>0){
d=cnum%10;
sum=sum+d;
```

```
cnum=cnum/100;
}Close of while
System.out.println("Sum of alternate digit of given No. "+num+"="+sum);
}Close of if
else
System.out.println("Must enter a 7-digit Number, try again!");
}//Close of main
}//Close of class
```

//OUTPUT

```
Enter a 7-digit number ::45632187
Must enter a 7-digit Number, try again!

Enter a 7-digit number ::9874562
Sum of alternate digit of given No. 9874562=23
```

/*8.Write a java application to accept an integer number to check and display message whether the given number is armstrong no. or not. */

```
import java.util.Scanner;
class CheckArmstrong{
public static void main(String args[]){
Scanner s=new Scanner(System.in);
System.out.println();
System.out.print("Enter a number ::");
```

```
int num=s.nextInt();
//System.out.println(num);
int tnum=num;
int digit,sum=0;
while(tnum>0){
digit=tnum%10;
sum=sum+digit*digit*digit;
tnum=tnum/10;
}Close of while
if(sum==num)
System.out.println(num+" is a Armstrong number");
else
System.out.println(num+" is not a Armstrong number!");
}//Close of main
}//Close of class
```

//OUTPUT

```
Enter a number ::125
125 is not a Armstrong number!

Enter a number ::153
153 is a Armstrong number
```