1. Write a program to take command line input and check number is odd or even.

Output

```
C:\Piyush\21BCA158 journal-1>java prog_1
Enter any No.:5
The value 5 is odd.
```

2. Write a program to take command line input and sum of 2 number.

```
import java.util.Scanner; class prog_2 {
static void main(String args[]) {
                                      int a, b,
sum;
       Scanner sc = new Scanner(System.in);
System.out.print("Enter the first No. : ");
                                                  a =
sc.nextInt();
       System.out.print("Enter the second No. : ");
= sc.nextInt();
                      sum = sum(a, b);
       System.out.println("The sum of two numbers "+a+" and "+b+" is: " +
sum);
public static int sum(int a, int b) {
int sum = a + b; return sum;
} }
```

Output

```
C:\Piyush\21BCA158 journal-1>java prog_2
```

Enter the first No.: 10

Enter the second No.: 5

The sum of two numbers 10 and 5 is: 15

3. Write a program to take command line input and calculate a Simple Interest.

Output

```
C:\Piyush\21BCA158 journal-1>java prog_3
Enter Value For Princip Amount :10000
Enter Value For Number Of Month :3
Enter Value For Rate :2
Simple Interest is : 600.0
```

4. Write a Program to take command line input and Check Number is Positive or Negative.

```
{
           System.out.println(b+" is Nagetive.");
       }
   }
}
                                  Output
```

C:\Piyush\21BCA158 journal-1>java prog_4

Enter any No.: 10

10 is Positive.

5. Write a Program to take command line input and Check Year is Leap Year or Not.

```
import java.util.Scanner; class prog_5 {
public static void main(String[] args) {
int year;
        boolean leap = false;
        Scanner s=new Scanner(System.in);
System.out.print("Enter any year : ");
                                                           if
                  if (year % 4 == 0) {
year=s.nextInt();
(year % 100 == 0) {
                                    if (year
% 400 == 0)
                                leap = true;
else
                    leap = false;
             else
leap = true;
         else {
leap = false;
                          if
(leap)
               System.out.println(year + " is a leap year."); else
                System.out.println(year + " is not a leap year.");
        }
    }
}
```

Output

C:\Piyush\21BCA158 journal-1>java prog_5

Enter any year: 2002

2002 is not a leap year.

6. Write a program to take command line input and find the Character Is Vowel or Not.

Output

C:\Ashish\21BCA103 journal-1>java prog_6

Enter any Character : A

A is vowel

7. Write a program to reverse a given number using while loop.

```
import java.util.Scanner;
                                                public static void
                              class prog_7 {
                          int n, r = 0;
main(String[] args) {
       System.out.print("Enter any No. to reverse : ");
Scanner sc = new Scanner(System.in);
sc.nextInt();
                   while(n != 0) {
                                                int re
= n % 10;
                     r = r * 10 + re;
                                                  n =
n/10;
       System.out.println("The reverse of the given number is : " + r);
}
}
```

Output

C:\Piyush\21BCA158 journal-1>java prog_7

Enter any No. to reverse: 4321

The reverse of the given number is: 1234

8. Write a program to reverse a given number using for loop.

Output

C:\Piyush\21BCA158journal-1>java prog_8

Enter any No. to reverse: 1234

The reverse of the given number is: 4321

9. Write a program to check number is Armstrong or Not

```
import java.util.Scanner; class prog_9 {
public static void main(String[] args) {
int n, no, r, rem = 0;
       Scanner sc = new Scanner(System.in);
System.out.print("Enter the No. : ");
n = sc.nextInt(); no = n;
while (no != 0) {
                         r = no \% 10;
rem += Math.pow(r, 3);
                                  no /= 10;
                if(rem
== n)
           System.out.println(n + " is an Armstrong number.");
                                                                      else
           System.out.println(n + " is not an Armstrong number.");
}
}
```

Output

C:\Piyush\21BCA158 journal-1>java prog_9

Enter the No.: 69

69 is not an Armstrong number.

10. Write a to check number is Prime number or not.

```
import java.util.Scanner; public class prog_10
      public static void main(String args[])
{
           int i,n,m=0,flag=0;
        Scanner sc = new Scanner(System.in);
System.out.print("Enter any No. : ");
n = sc.nextInt();
if(n==0||n==1) {
            System.out.println(n+" is not prime number");
                  else {
for(i=2;i<=m;i</pre>
                        if(n%i==0)
++) {
{
                    System.out.println(n+" is not prime number");
                             break;
flag=1;
               if(flag==0)
}
{
                System.out.println(n+" is prime number");
           }
        }
    }
}
```

Output

C:\Piyush\21BCA158 journal-1>java prog_10

Enter any No.: 123

123 is not prime number

11. Write a program to check given string is Palindrome or not.

Output

C:\Piyush\21BCA158 journal-1>java prog_11

Enter any string: Piyush

Piyush is not a Palindrome String.

12. Write a program in java to display the pattern like right angle triangle using an asterisk.

Output

C:\Piyush\21BCA158 journal-1>java prog_12

```
Enter any No.: 5
 *
* *
* *
* * *
* * * *
```

13. Write a program in java to make such a pattern like a pyramid with numbers increased by 1.

```
1
  2 3
 456
7 8 9 10
import java.util.Scanner; class prog_13 {
public static void main(String [] args) {
int i,a,b,n=1;
        Scanner sc=new Scanner(System.in);
System.out.print("Enter any No. : ");
                           for(b=1;b<=a;b++) {</pre>
a = sc.nextInt();
for(i=1;i<=a;i++) {</pre>
if((b+i)<=a) {
                     System.out.print(" ");
}
                  else {
                     System.out.print(n+" ");
n++;
                }
            System.out.println("\n");
        }
    }
}
```

Output

```
C:\Piyush\21BCA158 journal-1>java prog_13
Enter any No.: 5
 1
 23
456
78910
11 12 13 14 15
14. Write a C Program to display the pattern using the alphabet.
ABCDE
ABCD
A B C
ABA
import java.util.Scanner; class prog_14 {
public static void main(String [] args) {
int i,a,b=0;
                     char c;
        Scanner sc=new Scanner(System.in);
System.out.print("Enter any No. : ");
a = sc.nextInt();
                          for(b=a;b>=1;b--) {
c='A';
            for(i=1;i<=b;i++) {</pre>
System.out.print(c+" ");
                                         C++;
            System.out.println("\n");
        }
    }
}
                                    Output
C:\Ashish\21BCA103 journal-1>java prog_14
Enter any No.: 5
ABCDE
ABCD
ABC
```

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15. Write a program to take command line input and print factorial of given number.

Output

C:\Piyush\21BCA158 journal-1>java prog_15

Enter an Number to calculate its factorial 'Must Integer': 5

Factorial of 5 is = 120

16. Write a program to display Fibonacci series.

```
import java.util.Scanner; public class
prog_16 {
   public static void main(String[] args) {
int n, a = 0, b = 0, c = 1;
                               Scanner s
= new Scanner(System.in);
System.out.print("Enter value: ");
= s.nextInt();
       System.out.print("Fibonacci Series : ");
                                                       for(int
i = 1; i <= n; i++) {
                c = a + b;
= c;
           System.out.print(a+",");
       System.out.print("\b.");
   }
```

}

Output

C:\Piyush\21BCA158 journal-1>java prog_16

Enter value: 5

Fibonacci Series: 0,1,1,2,3.