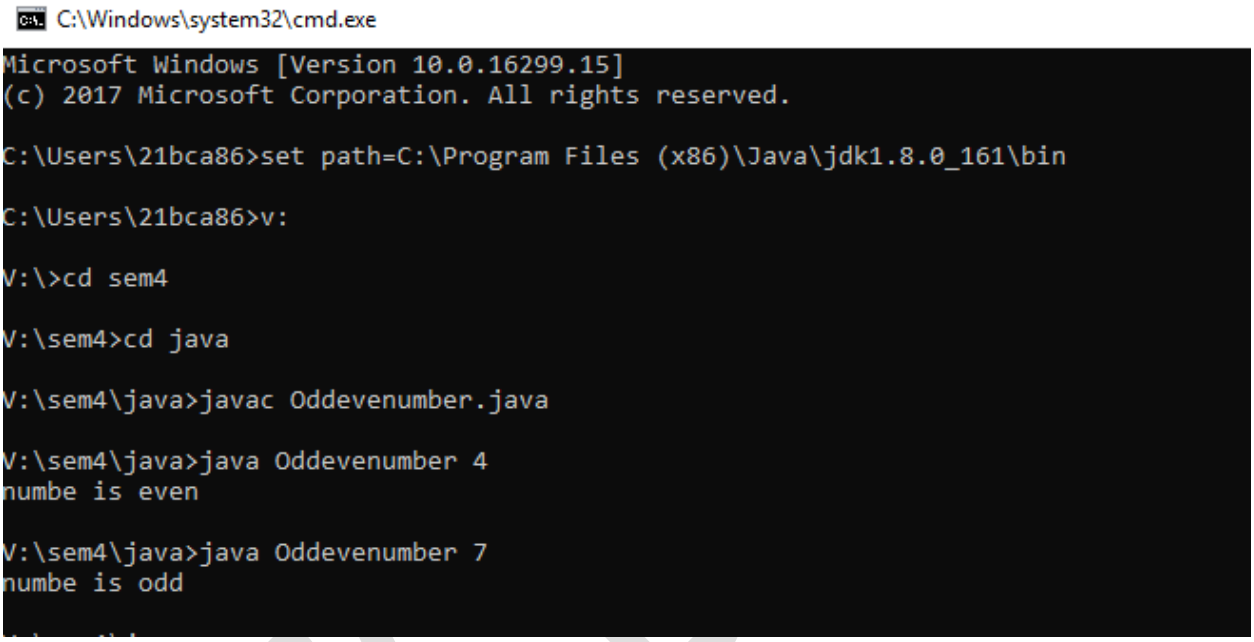
JOURNAL - 1

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

CODE

```
class Oddevenumber
{
	public static void main(String[] args)
	{
		int a;
		a=Integer.parseInt(args[0]);
		if(a%2==0)
		{
			System.out.println("numbe is even");
		}
else
		{
			System.out.println("numbe is odd");
		}
	}
}
```

OUTPUT


C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.16299.15]
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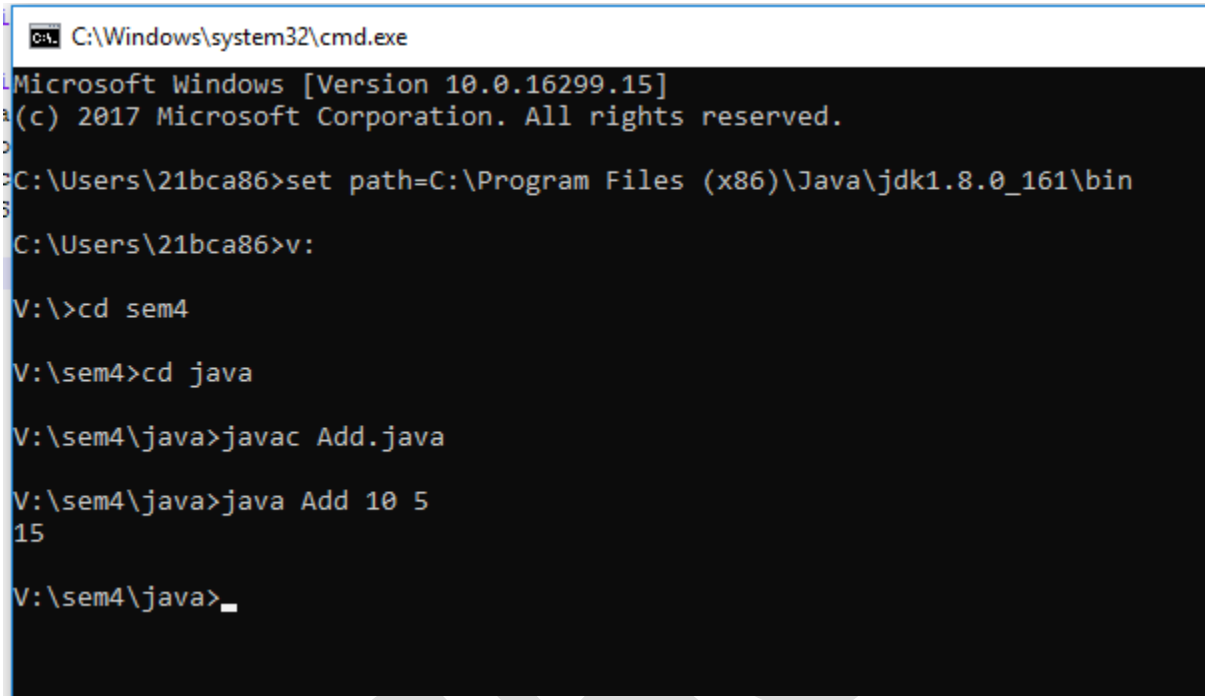
C:\Users\21bca86>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca86>v:
V:\>cd sem4
V:\sem4>cd java
V:\sem4\java>javac Oddevenumber.java
V:\sem4\java>java Oddevenumber 4
numbe is even
V:\sem4\java>java Oddevenumber 7
numbe is odd

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

CODE

```
class Add
{
	public static void main(String args[])
	{
		int a,b,c;
		a=Integer.parseInt(args[0]);
		b=Integer.parseInt(args[1]);
		c=a+b;
		System.out.println(c);
	}
}
```

OUTPUT


C:\Windows\system32\cmd.exe
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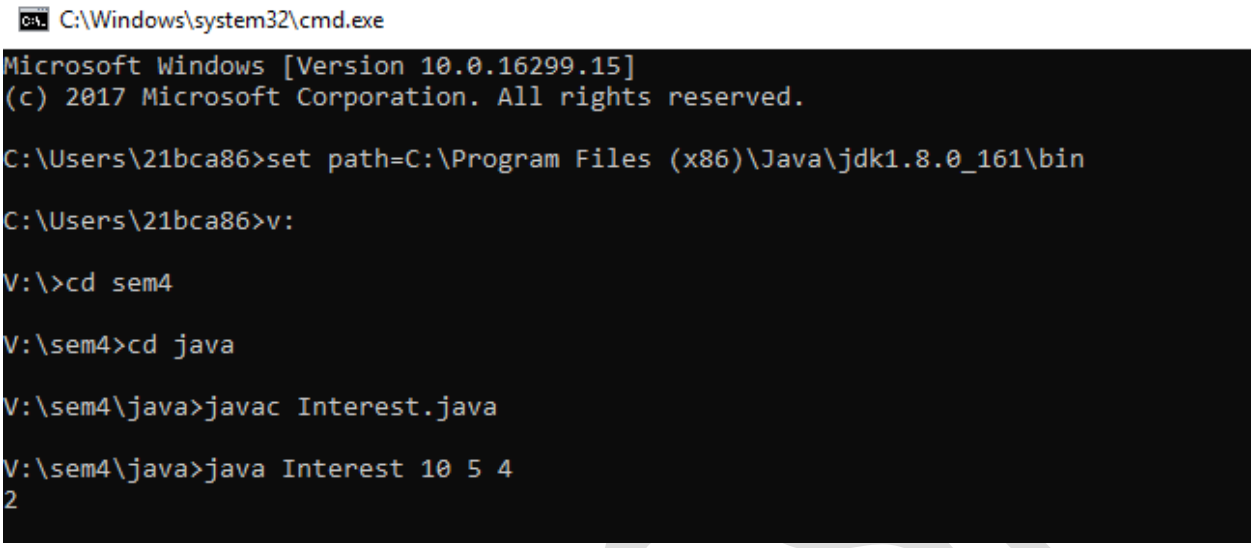
C:\Users\21bca86>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca86>v:
V:\>cd sem4
V:\sem4>cd java
V:\sem4\java>javac Add.java
V:\sem4\java>java Add 10 5
15
V:\sem4\java>

3. Write a program to take command line input and calculate simple interest.

CODE

```
class Interest
{
	public static void main(String args[])
	{
		int p,r,t,i;
		p=Integer.parseInt(args[0]);
		r=Integer.parseInt(args[1]);
		t=Integer.parseInt(args[2]);
		i=p*r*t/100;
		System.out.println(i);
	}
}
```

OUTPUT

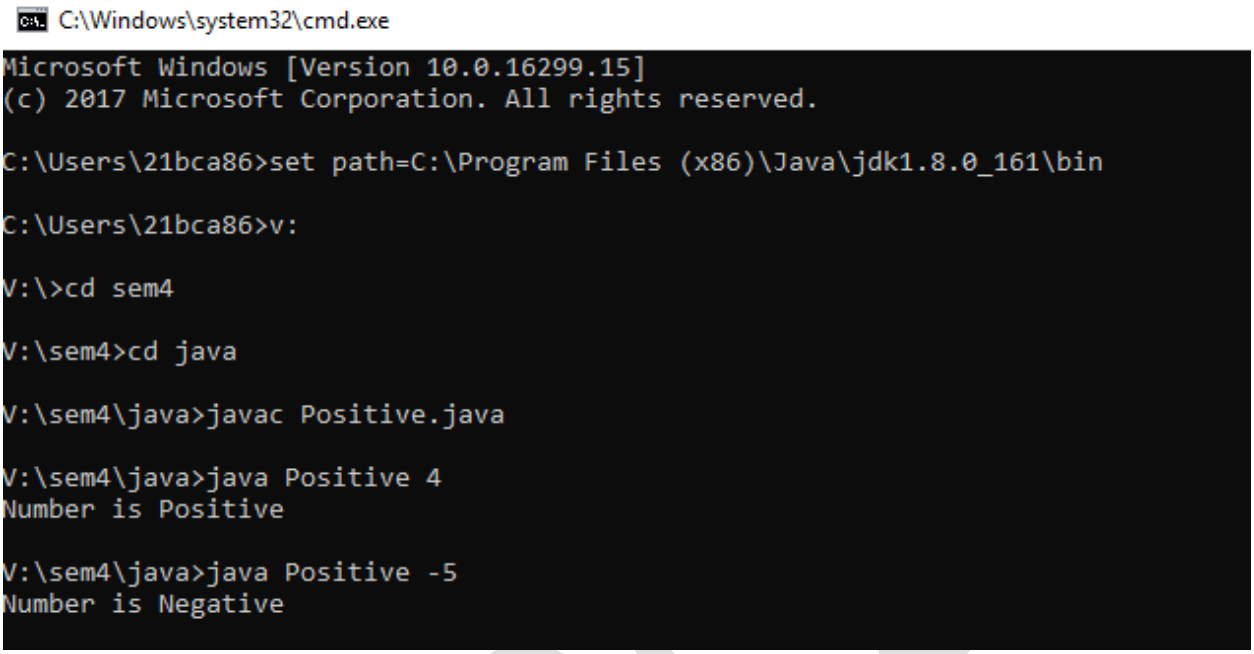


4. Write a program to take command line input and check number is positive or negative.

CODE

```
class Positive
{
	public static void main(String args[])
	{
		int no;
		no=Integer.parseInt(args[0]);
		if(no>0)
		{
			System.out.println("Number is Positive");
		}
	else
	{
		System.out.println("Number is Negative");
	}
	}
}
```

OUTPUT

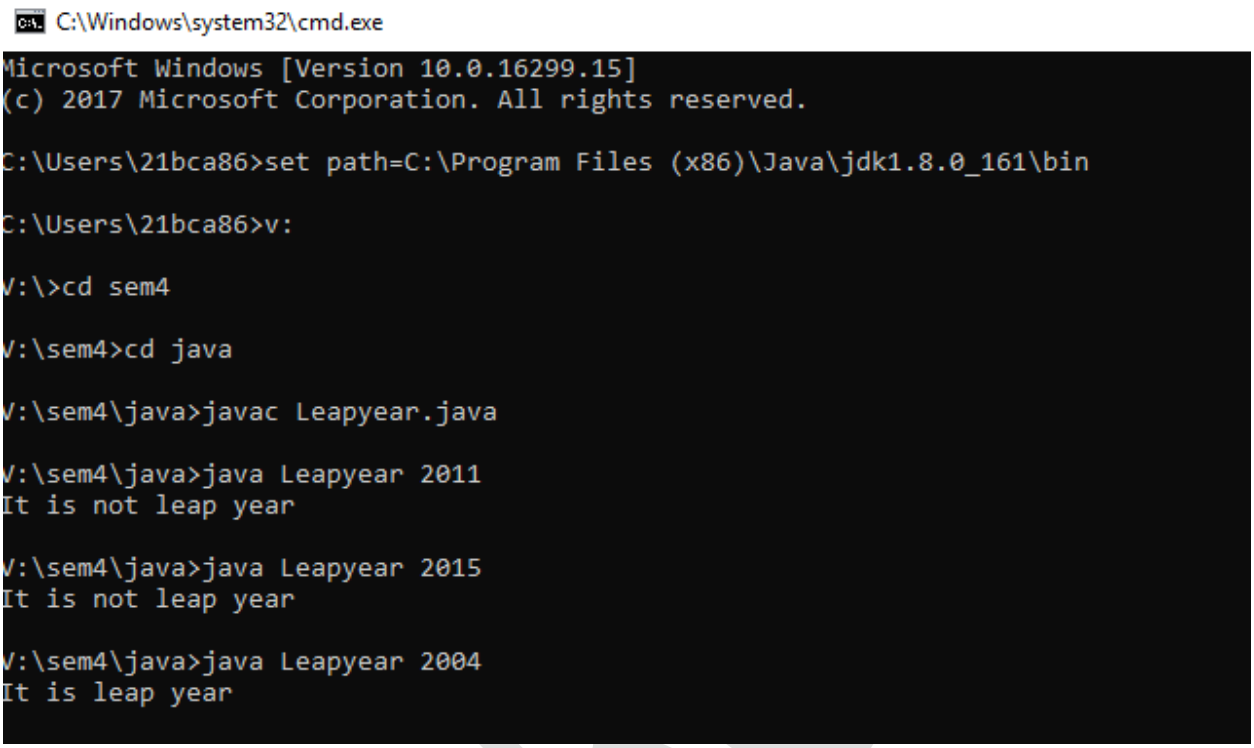


5. Write a program to take command line input and check year is lear year or not.

CODE

```
class Leapyear
{
        public static void main(String args[])
        {
            int year;
            year=Integer.parseInt(args[0]);
            if(year%4==0)
            {
                System.out.println("It is leap year");
            }
    else
        System.out.println("It is not leap year");
        }
}
```

OUTPUT


C:\Windows\system32\cmd.exe
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C:\Users\21bca86>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca86>v:
V:\>cd sem4
V:\sem4>cd java
V:\sem4\java>javac Leapyear.java
V:\sem4\java>java Leapyear 2011
It is not leap year
V:\sem4\java>java Leapyear 2015
It is not leap year
V:\sem4\java>java Leapyear 2004
It is leap year

6. Write a program to take command line input and find the character is vowel or not.

CODE

```
class Vowel
{
        public static void main(String args[])
        {
            char c;
            c=args[0].charAt(0);
            if(c=='a'||c=='e'||c=='i'||c=='o'||c=='u')
            {
                System.out.println("Character is Vowel");
            }
        else
        {
            System.out.println("Character is not Vowel,It is a Consonant");
}
}
}
```

OUTPUT

C:\Windows\system32\cmd.exe

```
Microsoft Windows [Version 10.0.16299.15]
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C:\Users\21bca86>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin

C:\Users\21bca86>v:

V:\>cd sem4

V:\sem4>cd java

V:\sem4\java>javac  Vowel.java

V:\sem4\java>java Vowel a
Character is Vowel

V:\sem4\java>java Vowel K
Character is not Vowel,It is a Consonant
```
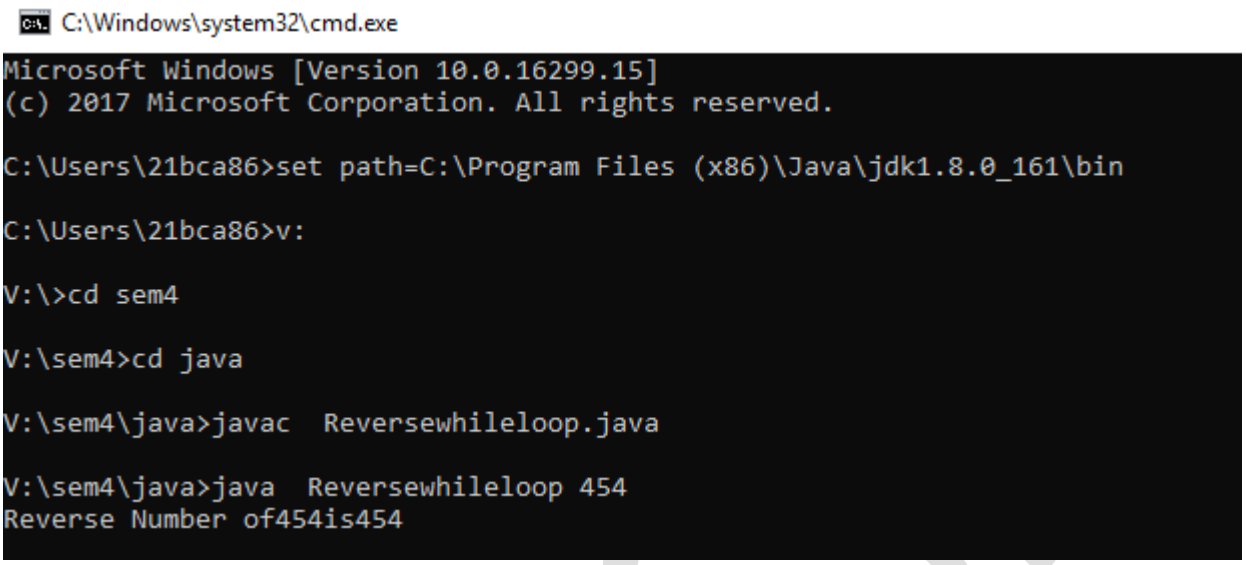

7. Write a program to reverse a given number using while loop.

CODE

```
class Reversewhileloop
{
        public static void main(String args[])
        {
            int a,i=0,s,r,b;
            a=Integer.parseInt(args[0]);
            b=a;
            s=0;
            while(a>0)
            {
                i++;
                r=a%10;
                s=s*10+r;
                a=a/10;
            }
        System.out.println("Reverse Number of"+b+"is"+s);
        }
}
```

OUTPUT

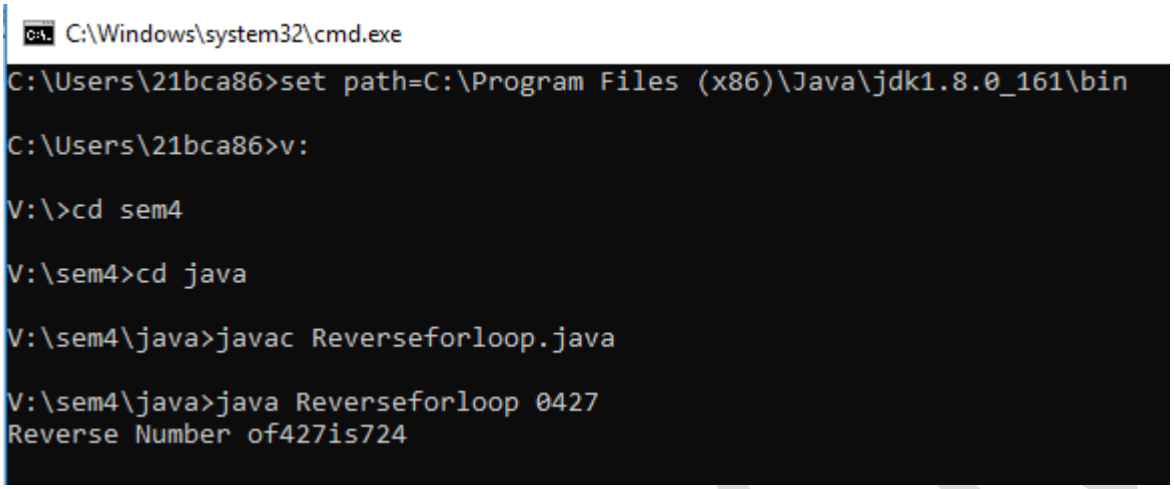


8. Write a program to reverse a given number using for loop.

CODE

```
class Reverseforloop
{
        public static void main(String args[])
        {
            int a,i,s,r,b;
            a=Integer.parseInt(args[0]);
            b=a;
            s=0;
            for(i=0;a>0;i++)
            {
                r=a%10;
                s=s*10+r;
                a=a/10;
            }
                System.out.println("Reverse Number
of"+b+"is"+s);
        }
}
```

OUTPUT



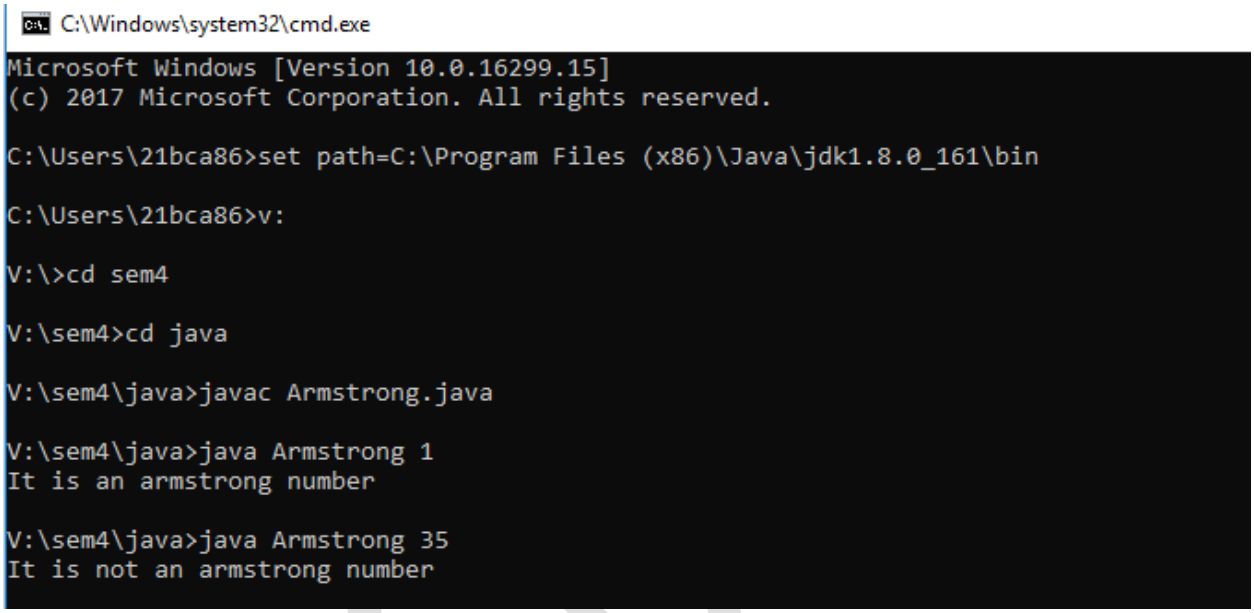
9. Write a program to cheak number is Armstrong or not.

CODE

```
class Armstrong
{
        public static void main(String args[])
        {
            int a,b,c=0,d;
            a=Integer.parseInt(args[0]);
            d=a;
            while(a>0)
            {
                b=a%10;
                c=c+b*b*b;
                a=a/10;
            }
                if(d==c)
                System.out.println("It is an armstrong number");
            else
                        System.out.println("It is not an armstrong
number");
```

```
        }
}
```

OUTPUT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C:\Users\21bca86>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca86>v:
V:\>cd sem4
V:\sem4>cd java
V:\sem4\java>javac Armstrong.java
V:\sem4\java>java Armstrong 1
It is an armstrong number
V:\sem4\java>java Armstrong 35
It is not an armstrong number

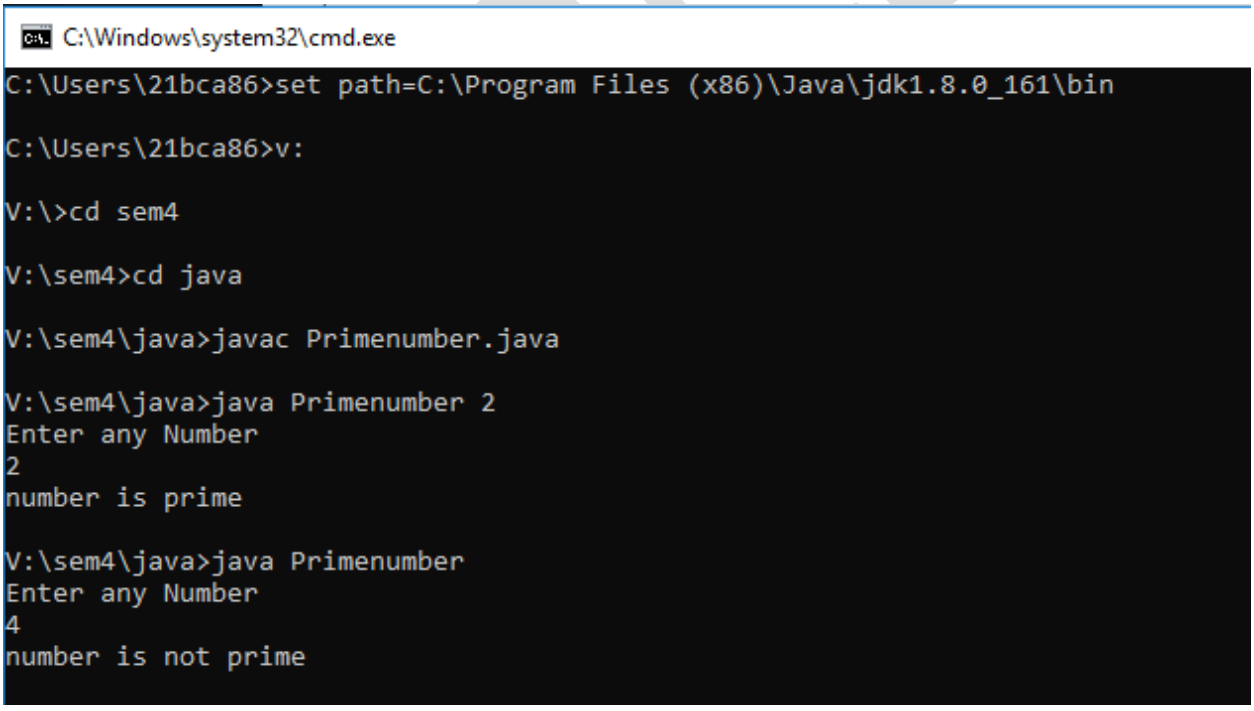
10. Write a cheak number is prime number or not.

CODE

```
import java.util.Scanner;
class Primenumber
        {
                public static void main(String args[])
                {
                        int a,b,c=0,d=0;
                        Scanner p=new Scanner(System.in);
                        System.out.println("Enter any Number");
                        a=p.nextInt();
                        c=a/2;
                        for(b=2;b<=c;b++)
                        {
                            if(a%b==0)
                                {
                                        System.out.println("number is
not prime");
                                        d=1;
                                        break;
                                }
```

```
                        }
                            if(d==0)
                            {
                                System.out.println("number is
prime");
                            }
                    }
}
```

OUTPUT



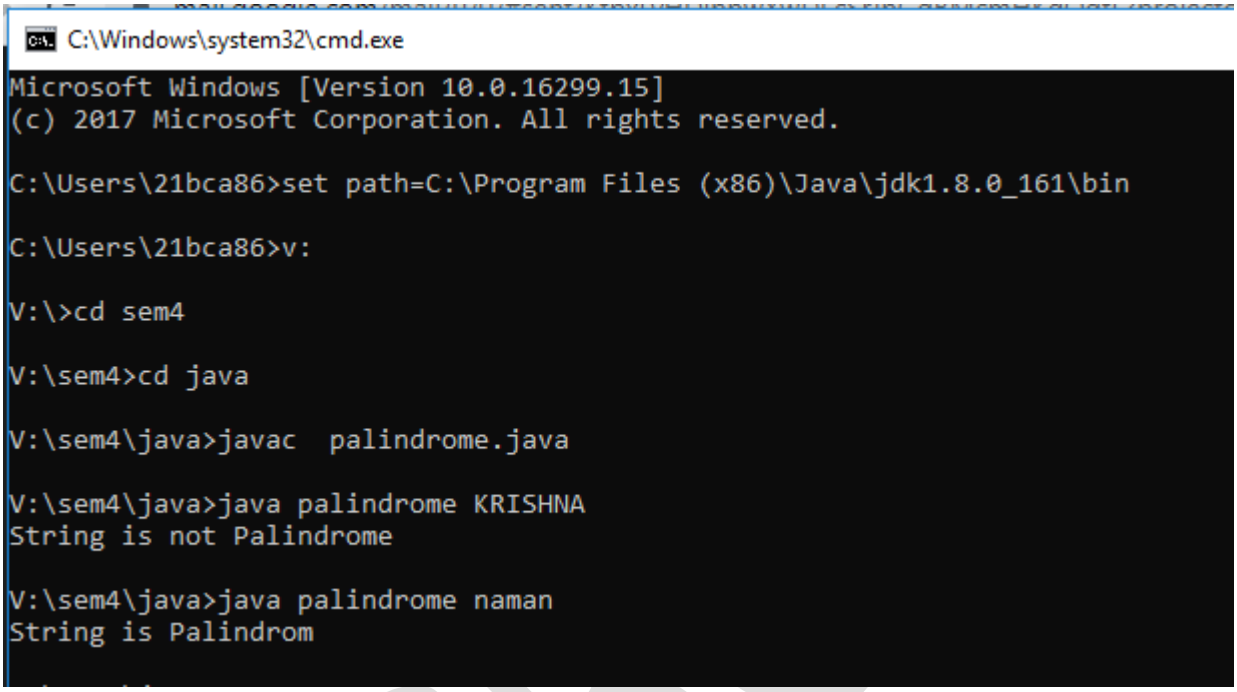
11. Write a program to check given string is palindrom or not.

CODE

```
class palindrome
{
        public static void main(String args[])
        {
            String str,reversestr="";
            str=args[0];
            int strLength=str.length();
            for(int i=(strLength-1);i>=0;--i)
            {
                reversestr=reversestr+str.charAt(i);
            }

    if(str.toLowerCase().equals(reversestr.toLowerCase()))
                System.out.println("String is Palindrom");
            else
                System.out.println("String is not Palindrome");
        }
}
```

OUTPUT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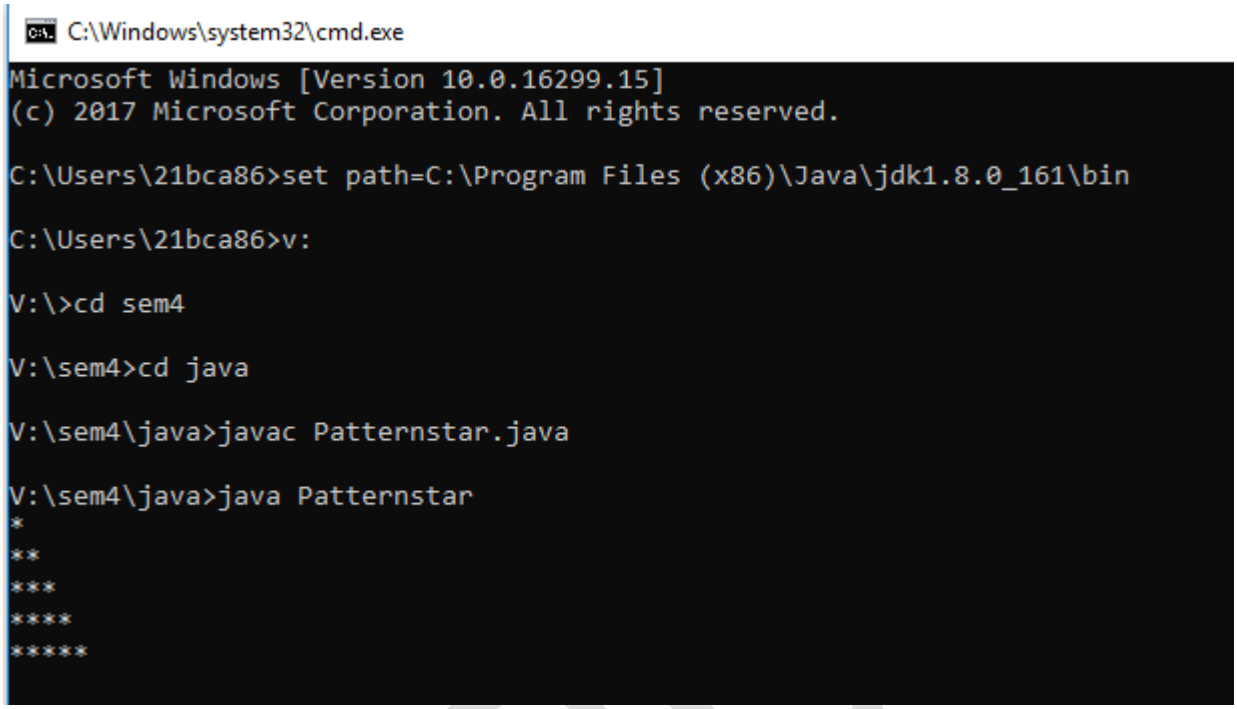
C:\Users\21bca86>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca86>v:
V:\>cd sem4
V:\sem4>cd java
V:\sem4\java>javac palindrome.java
V:\sem4\java>java palindrome KRISHNA
String is not Palindrome
V:\sem4\java>java palindrome naman
String is Palindrom

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

CODE

```
class Patternstar
{
        public static void main(String args[])
        {
            int i,j;
            for(i=1;i<=5;i++)
            {
                for(j=1;j<=i;j++)
                {
                    System.out.print("*");
                }
                    System.out.print("\n");
            }
        }
}
```

OUTPUT


C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.16299.15]
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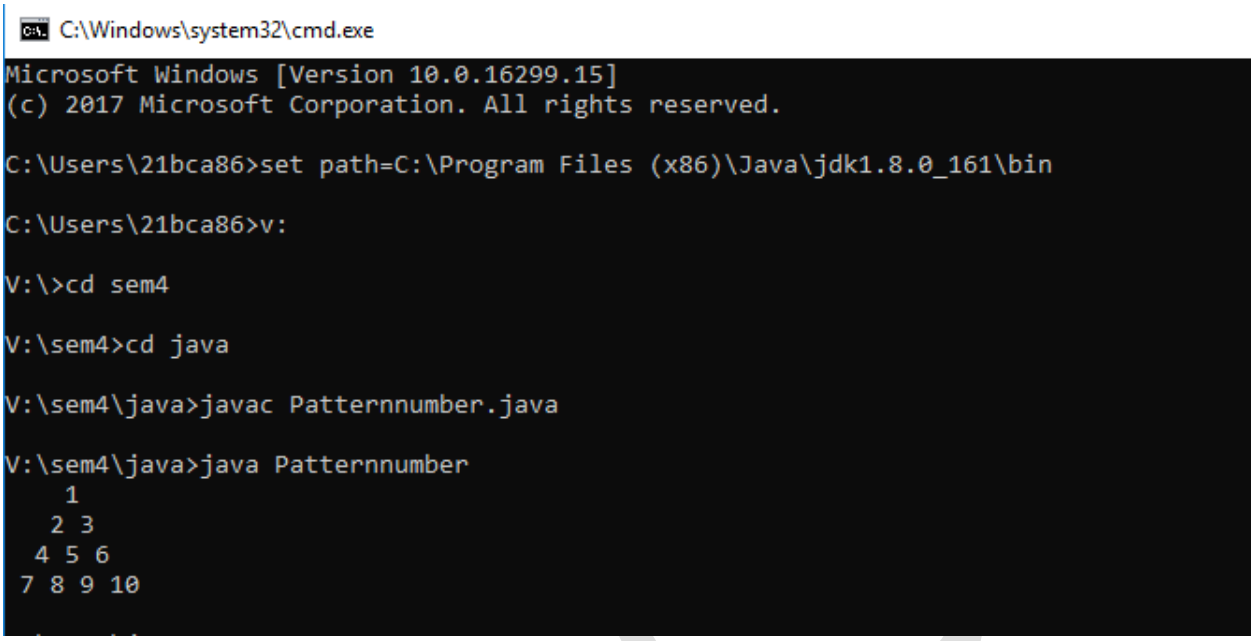
C:\Users\21bca86>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca86>v:
V:\>cd sem4
V:\sem4>cd java
V:\sem4\java>javac Patternstar.java
V:\sem4\java>java Patternstar
*
**
***
****
*****

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

CODE

```
class Patternnumber
{
        public static void main(String args[])
        {
                int i,j,k,count=1;
                for(i=1;i<=4;i++)
                {
                    for(j=4;j>=i;j--)
                    {
                        System.out.print(" ");
                    }
                        for(k=1;k<=i;k++,count++)
                        {
                            System.out.print(count+" ");
                        }
                             System.out.println();
                }
        }
}
```

OUTPUT

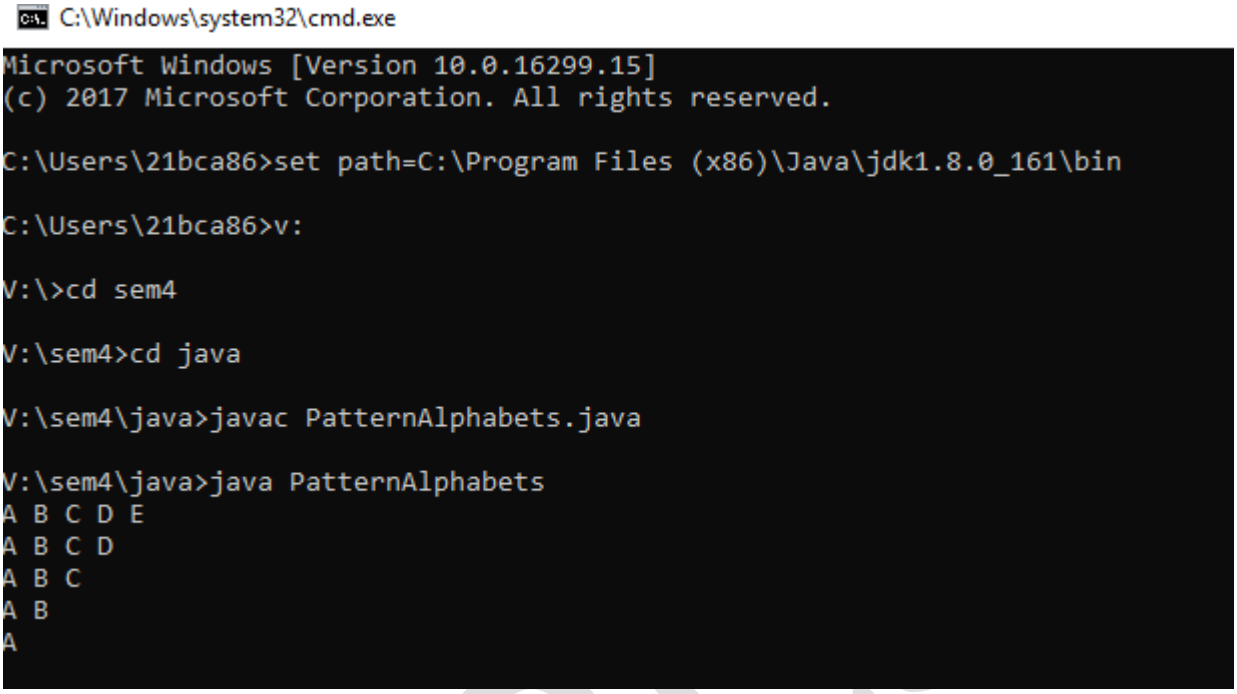


14. Write a c program to display the pattern using the alphabet.

CODE

```
class PatternAlphabets
{
        public static void main(String args[])
        {
            int i,j,n=6;
            for(i=1;i<=n;i++)
            {
                for(j=1;j<=n-i;j++)
                {
                    System.out.print((char) ('A'+ (j-1))+ " ");
                }
                        System.out.println();
            }
        }
}
```

OUTPUT

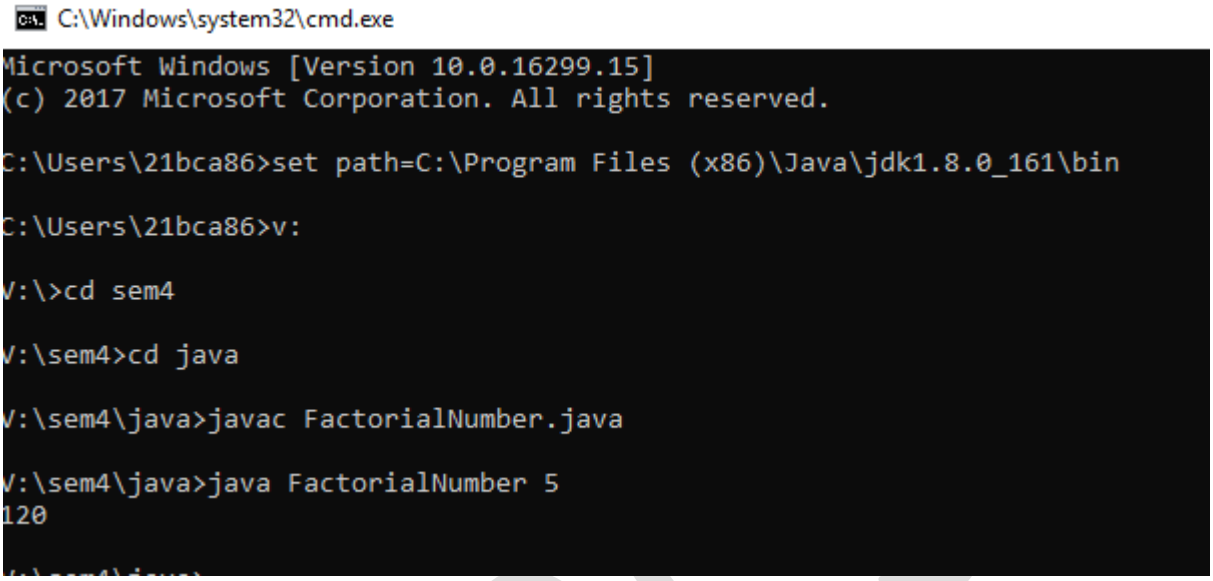


15. Write a program to take command line input and print factorial of given number.

CODE

```
class FactorialNumber
{
        public static void main(String args[])
        {
            int a=1,n;
            n=Integer.parseInt(args[0]);
            for(int i=1;i<=n;i++)
            {
                a=a*i;
            }
                    System.out.println(a);
        }
}
```

OUTPUT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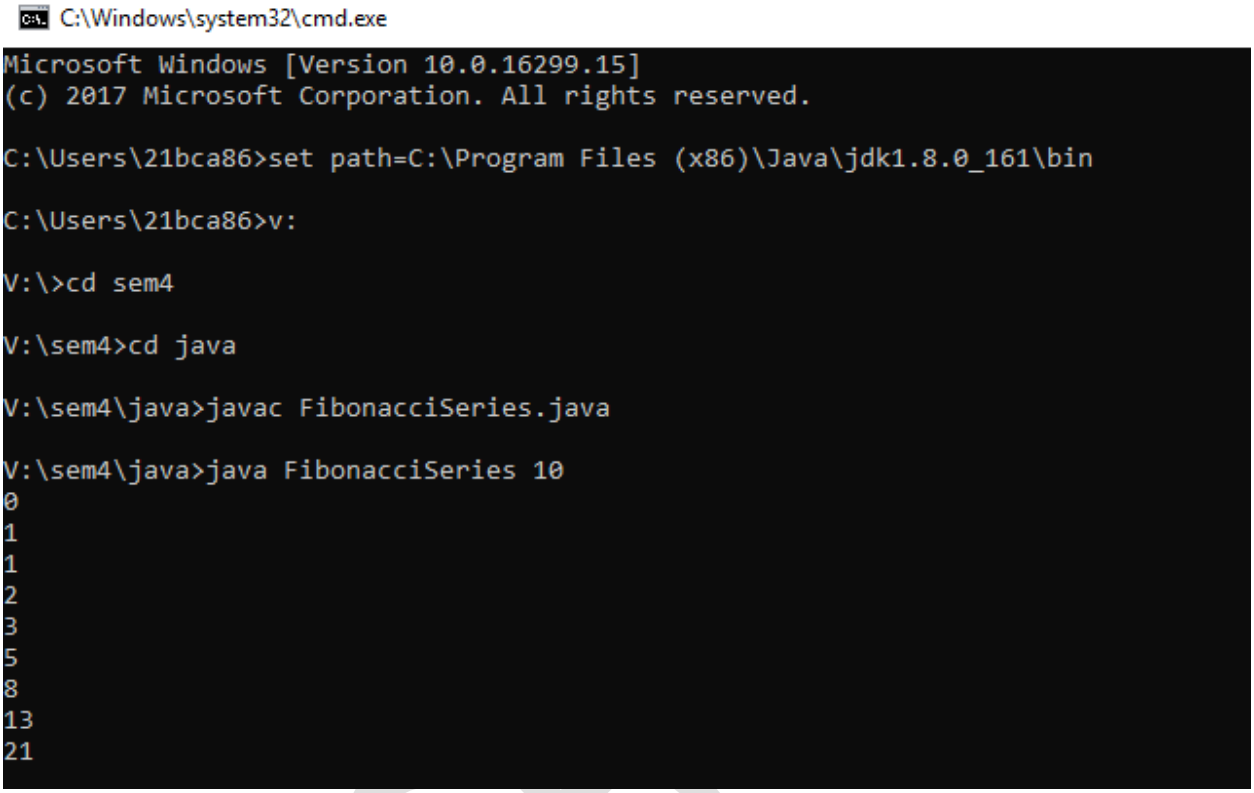
C:\Users\21bca86>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca86>v:
V:\>cd sem4
V:\sem4>cd java
V:\sem4\java>javac FactorialNumber.java
V:\sem4\java>java FactorialNumber 5
120

16. Write a program to display fibonacci series.

CODE

```
class FibonacciSeries
{
        public static void main(String args[])
        {
            int a,b=0,c=1,d,e;
            a=Integer.parseInt(args[0]);
            for(e=1;e<a;e++)
            {
                System.out.println(b);
                d=b+c;
                b=c;
                c=d;
            }
        }
}
```

OUTPUT


C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.16299.15]
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C:\Users\21bca86>set path=C:\Program Files (x86)\Java\jdk1.8.0_161\bin
C:\Users\21bca86>v:
V:\>cd sem4
V:\sem4>cd java
V:\sem4\java>javac FibonacciSeries.java
V:\sem4\java>java FibonacciSeries 10
0
1
1
2
3
5
8
13
21