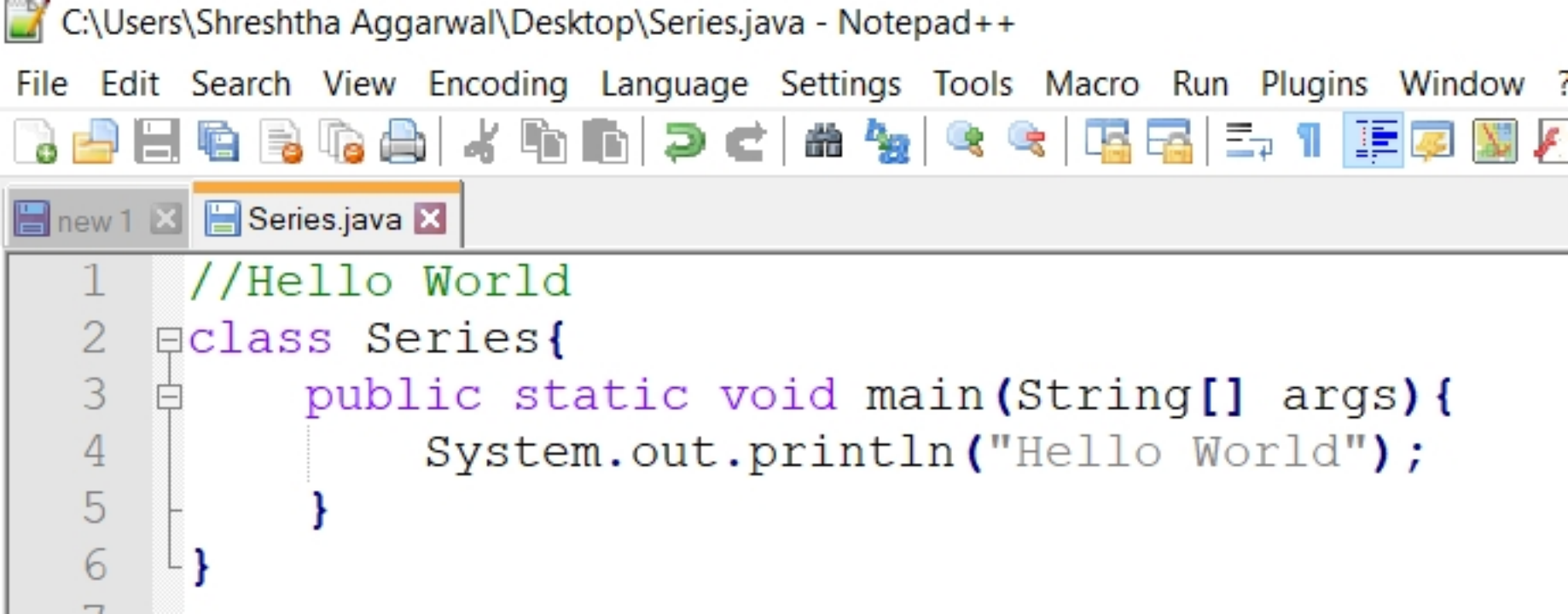
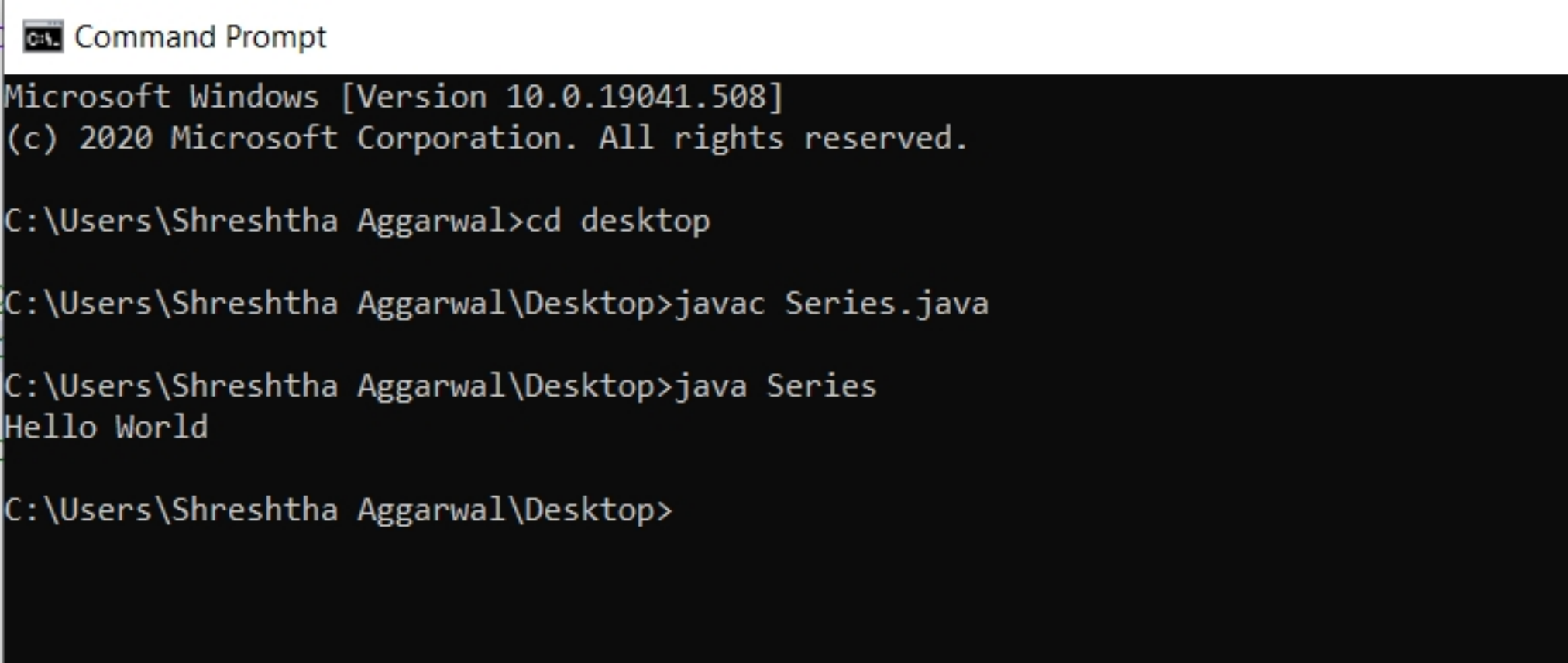

C:\Users\Shreshtha Aggarwal\Desktop\Series.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window
new 1
Series.java
1 //Hello World
2 class Series{
3 public static void main(String[] args){
4 System.out.println("Hello World");
5 }
6 }

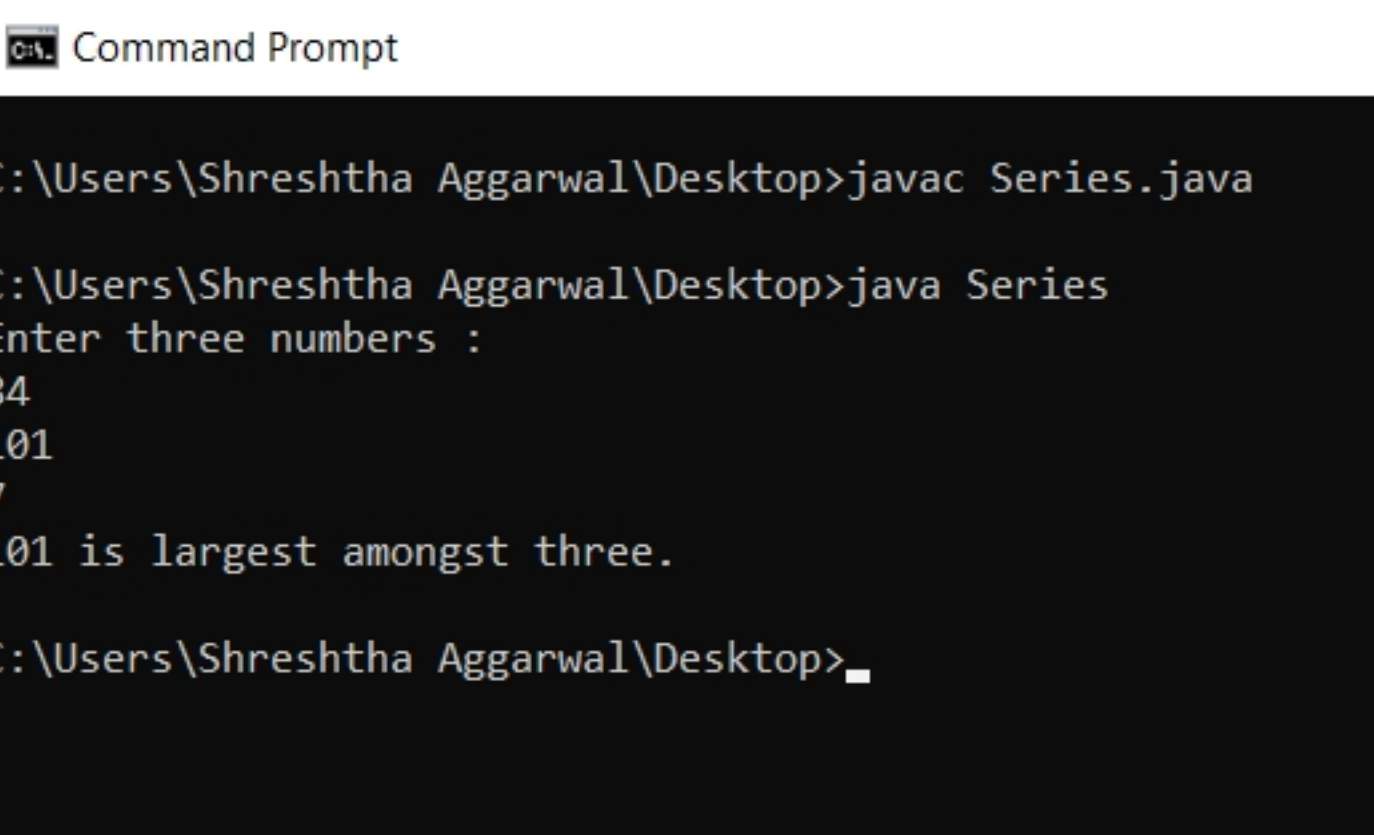

Command Prompt
Microsoft Windows [Version 10.0.19041.508]
(c) 2020 Microsoft Corporation. All rights reserved.
C:\Users\Shreshtha Aggarwal>cd desktop
C:\Users\Shreshtha Aggarwal\Desktop>javac Series.java
C:\Users\Shreshtha Aggarwal\Desktop>java Series
Hello World
C:\Users\Shreshtha Aggarwal\Desktop>

C:\Users\Shreshtha Aggarwal\Desktop\Series.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

new 1 | Series.java

```
7
8   //Laergest of 3
9   import java.util.*;
10  class Series{
11      public static void main(String[] args){
12          int a,b,c;
13          Scanner in= new Scanner(System.in);
14          System.out.println("Enter three numbers : ");
15          a = in.nextInt();
16          b = in.nextInt();
17          c = in.nextInt();
18          if(a>b && a>c){
19              System.out.println(a+" is largest amongst three.");
20          }
21          else if(b>c){
22              System.out.println(b+" is largest amongst three.");
23          }
24          else {
25              System.out.println(c+" is largest amongst three.");
26          }
27      }
28  }
```

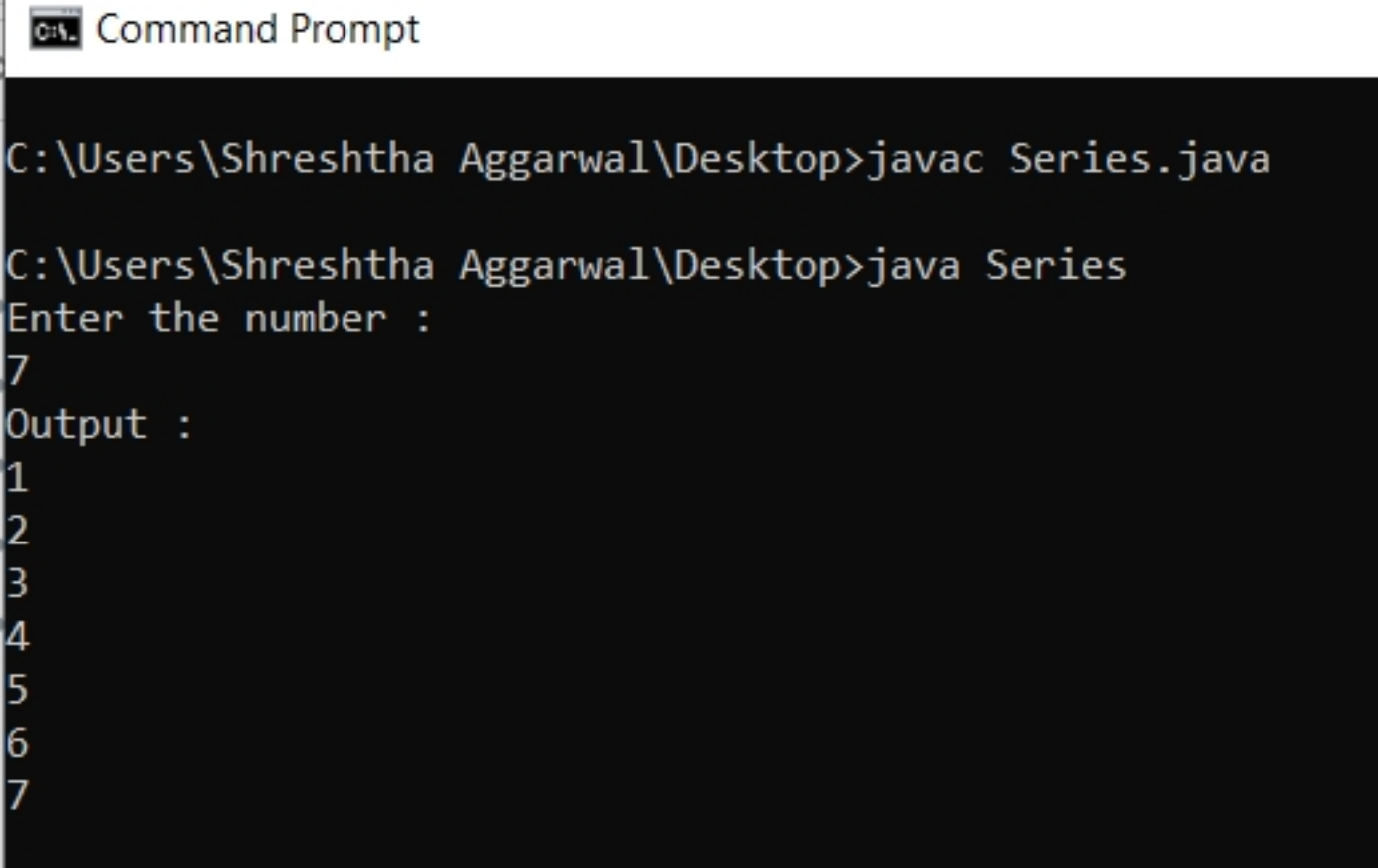

Command Prompt
C:\Users\Shreshtha Aggarwal\Desktop>javac Series.java
C:\Users\Shreshtha Aggarwal\Desktop>java Series
Enter three numbers :
84
101
7
101 is largest amongst three.
C:\Users\Shreshtha Aggarwal\Desktop>

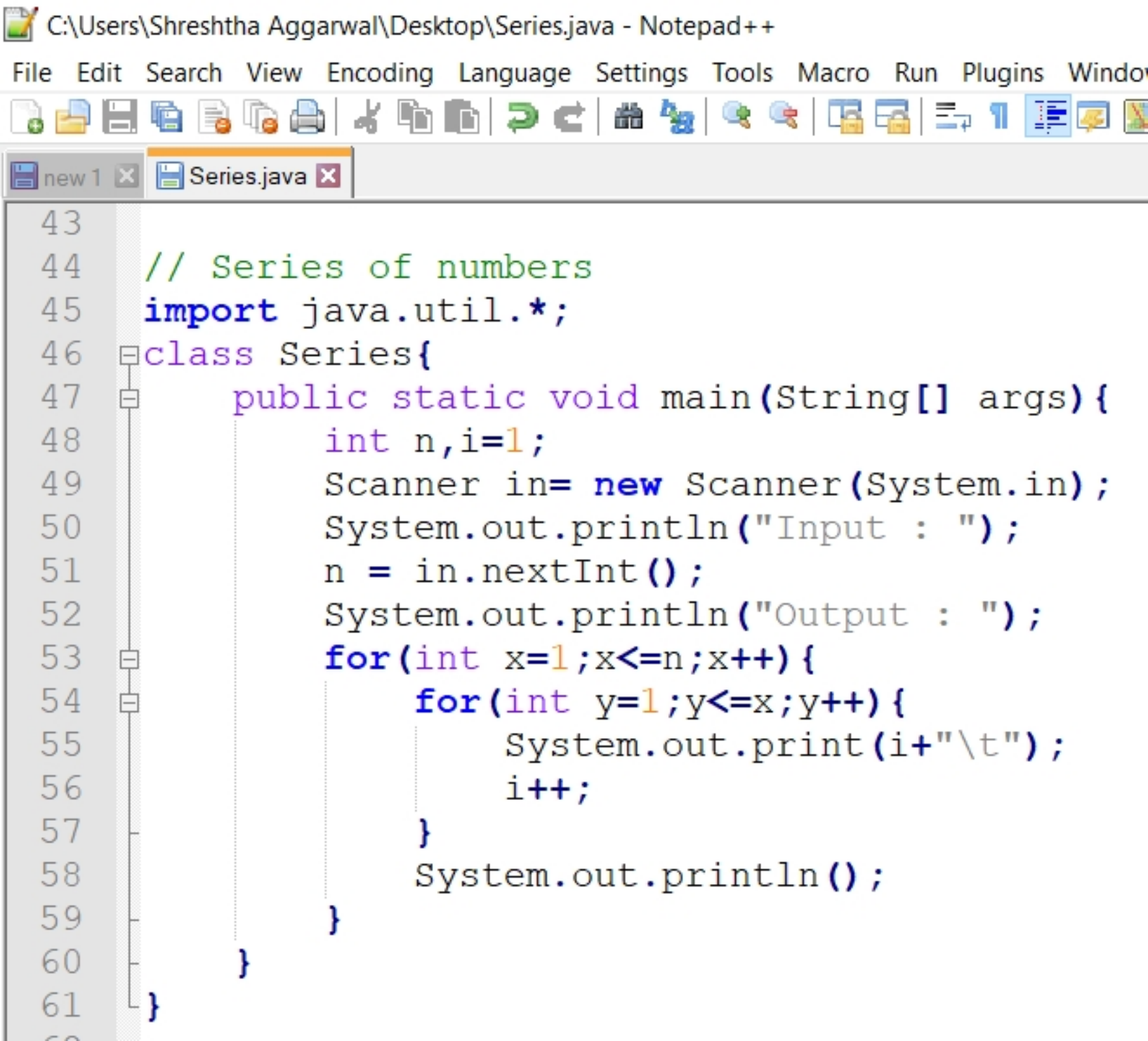
C:\Users\Shreshtha Aggarwal\Desktop\Series.java - Notepad++

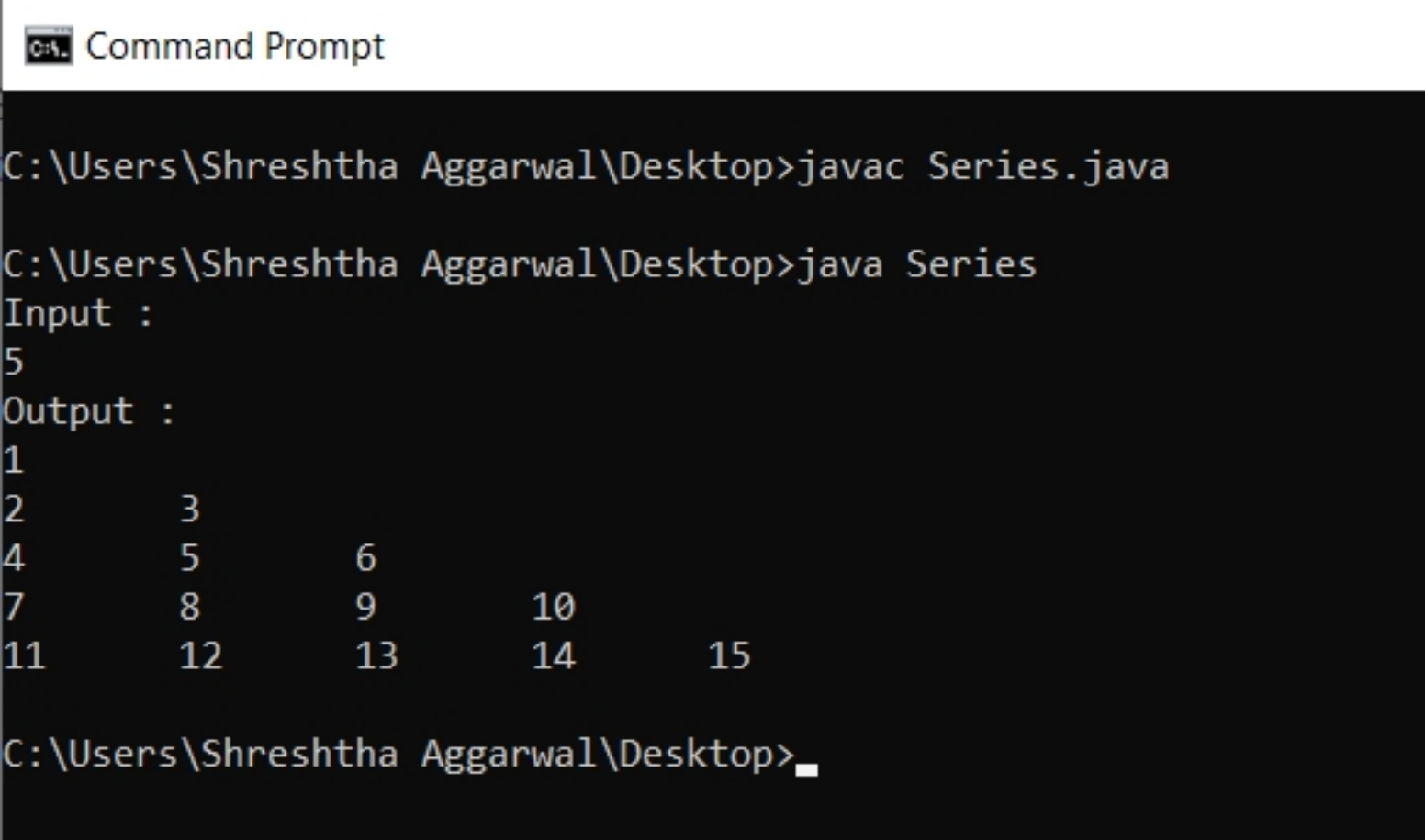
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window

new 1 | Series.java

```
29
30  //TakeN
31  import java.util.*;
32  public class Series{
33      public static void main(String[] args){
34          int n;
35          Scanner in= new Scanner(System.in);
36          System.out.println("Enter the number : ");
37          n = in.nextInt();
38          System.out.println("Output : ");
39          for(int i=1; i<=n; i++){
40              System.out.println(i);
41          }
42      }
43  }
```


Command Prompt
C:\Users\Shreshtha Aggarwal\Desktop>javac Series.java
C:\Users\Shreshtha Aggarwal\Desktop>java Series
Enter the number :
7
Output :
1
2
3
4
5
6
7


C:\Users\Shreshtha Aggarwal\Desktop\Series.java - Notepad++
File Edit Search View Encoding Language Settings Tools Macro Run Plugins Windo
new 1
Series.java
43
44 // Series of numbers
45 import java.util.*;
46 class Series{
47 public static void main(String[] args){
48 int n,i=1;
49 Scanner in= new Scanner(System.in);
50 System.out.println("Input : ");
51 n = in.nextInt();
52 System.out.println("Output : ");
53 for(int x=1;x<=n;x++){
54 for(int y=1;y<=x;y++){
55 System.out.print(i+"\t");
56 i++;
57 }
58 System.out.println();
59 }
60 }
61 }

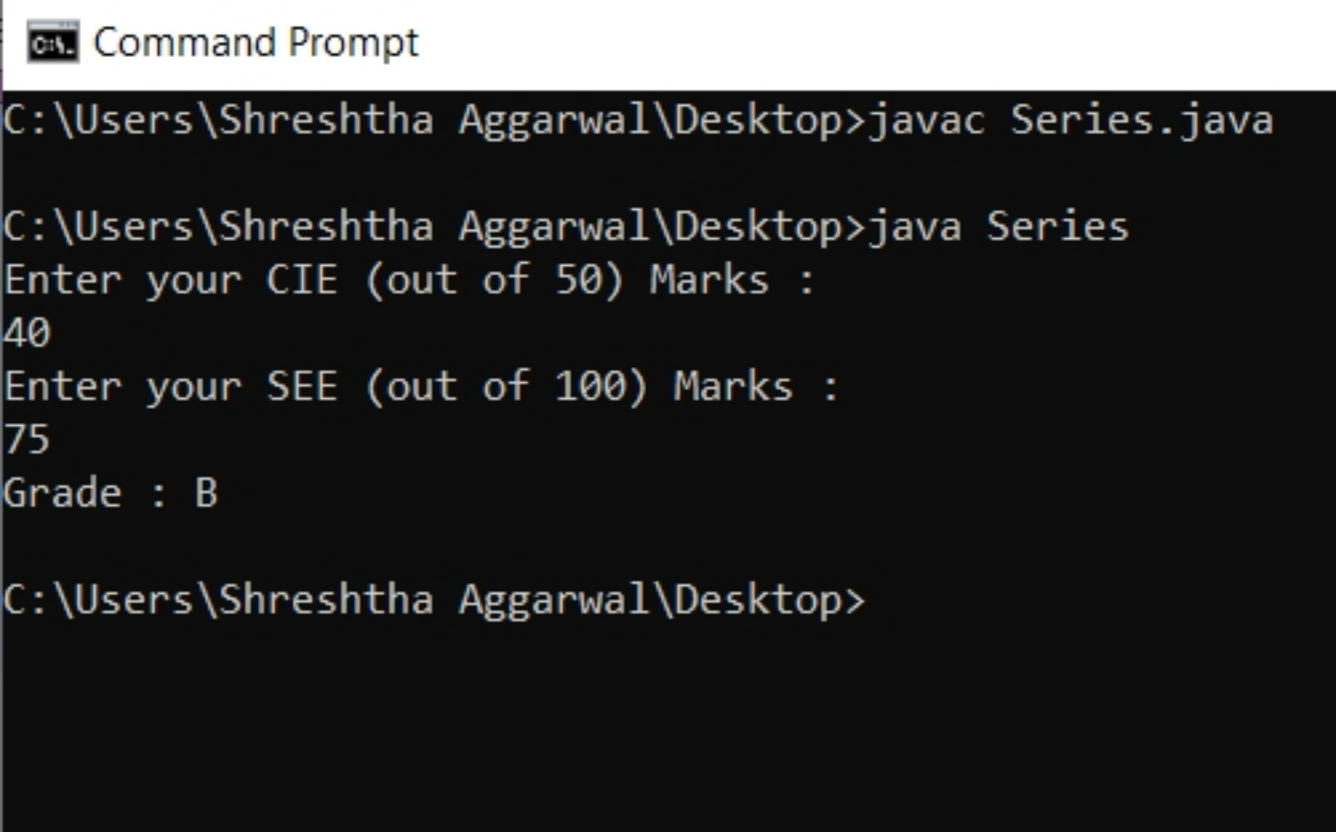

Command Prompt
C:\Users\Shreshtha Aggarwal\Desktop>javac Series.java
C:\Users\Shreshtha Aggarwal\Desktop>java Series
Input :
5
Output :
1
2 3
4 5 6
7 8 9 10
11 12 13 14 15
C:\Users\Shreshtha Aggarwal\Desktop>

C:\Users\Shreshtha Aggarwal\Desktop\Series.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

new 1 | Series.java

```java
//Marks
import java.util.*;
class Series{
    public static void main(String[] args){
        int a,b;
        Scanner in= new Scanner(System.in);
        System.out.println("Enter your CIE (out of 50) Marks : ");
        a = in.nextInt();
        System.out.println("Enter your SEE (out of 100) Marks : ");
        b = in.nextInt();
        int f=(a+(b/2));
        System.out.print("Grade : ");
        if(f<=100 && f>=90){
            System.out.println("S");
        }
        else if(f<=89 && f>=80){
            System.out.println("A");
        }
        else if(f<=79 && f>=70){
            System.out.println("B");
        }
        else if(f<=69 && f>=60){
            System.out.println("C");
        }
        else if(f<=59 && f>=50){
            System.out.println("D");
        }
        else if(f<=49 && f>=40){
            System.out.println("E");
        }
        else if(f<=39 && f>=0){
            System.out.println("F");
        }
        else{
            System.out.println("Enter proper marks");
        }
    }
}
```

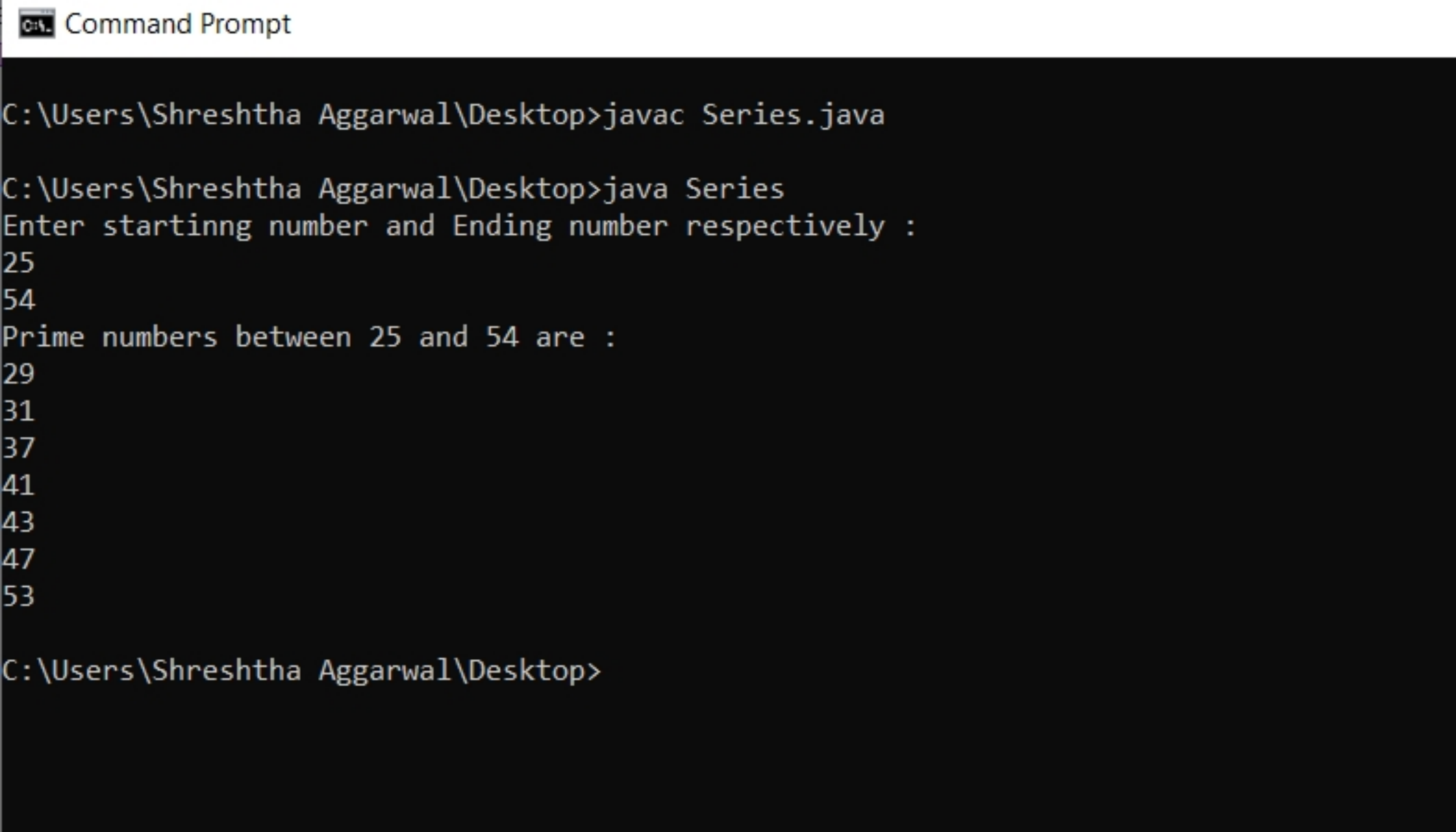

Command Prompt
C:\Users\Shreshtha Aggarwal\Desktop>javac Series.java
C:\Users\Shreshtha Aggarwal\Desktop>java Series
Enter your CIE (out of 50) Marks :
40
Enter your SEE (out of 100) Marks :
75
Grade : B
C:\Users\Shreshtha Aggarwal\Desktop>

C:\Users\Shreshtha Aggarwal\Desktop\Series.java - Notepad++

File Edit Search View Encoding Language Settings Tools Macro Run Plugins Window ?

new 1 | Series.java

```java
// Prime numbers
import java.util.*;
class Series{
    public static void main(String[] args){
        int a,b;
        Scanner in= new Scanner(System.in);
        System.out.println("Enter startinng number and Ending number respectively : ");
        a = in.nextInt();
        b = in.nextInt();
        System.out.println("Prime numbers between "+a+" and "+b+" are :");
        for(int i=a;i<=b;i++){
            if(i==1 || i==0){
                continue;
            }
            int flag=1;
            for(int j=2;j<=i/2;j++){
                if(i%j==0){
                    flag=0;
                    break;
                }
            }
            if(flag==1){
                System.out.println(i);
            }
        }
    }
}
```


Command Prompt
C:\Users\Shreshtha Aggarwal\Desktop>javac Series.java
C:\Users\Shreshtha Aggarwal\Desktop>java Series
Enter startinng number and Ending number respectively :
25
54
Prime numbers between 25 and 54 are :
29
31
37
41
43
47
53
C:\Users\Shreshtha Aggarwal\Desktop>

main.c

```c

#include<stdio.h>
#include<stdlib.h>

struct Student
{
    char Name[30];
    int Elective;
};

void getdata(struct Student *,int);
int count(struct Student *,int,int);
void check(int * ,struct Student *,int );
void re_getdata(struct Student * ,int,int *,int );
void display(struct Student * ,int *,int );

int main()
{
    int n,E[3];
    printf("\nEnter The number of students (min. entries should be 30): ");
    scanf("%d",&n);
    if(n<30){
        printf("You have not entered min. no. of students");
        exit(0);}
    struct Student S[n];
    getdata(S,n);
    for(int i=1;i<=3;i++)
    {
       E[i-1]=count(S,i,n);
    }
    check(E,S,n);

    display(S,E,n);

      return 0;

}
```

main.c

```
352  void getdata(struct Student *S,int n)
353  {
354     for(int i=0;i<n;i++)
355     {
356        printf("\nEnter The Name Of Student and Choice of Elective : ");
357        scanf("%s%d",S[i].Name,&S[i].Elective);
358     }
359  }
360  int count(struct Student *S ,int k,int n)
361  {
362      int c=0;
363      for(int i=0;i<n;i++)
364          if(S[i].Elective==k)
365          c++;
366      return c;
367  }
368  void check(int *E,struct Student *S,int n )
369  {
370      printf("\nThe Current Electives are :  \nInternet of Things:%d  \nAdvanced Java and J2EE:%d  \nAdvanced Data Structures):%d ",E[0],E[1],E[2]);
371      int net;
372      //Changeable to any no:currently set to 30 of students
373      net=30;
374
375      for(int i=1;i<=3;i++)
376      {
377
378         if(E[i-1]<=net)
379         {
380         printf("\n\n*****The Elective Choice number %d has too less students(Min required> %d), you are redirected to change the choice*****\n",i,net);
381         re_getdata(S,i,E,n);
382         if(E[i-1]==0)
383          {
384             printf("\n\t\t\t(!!Elective %d is not available!!\n\n)",i);
385          }
386
387         }
388
```

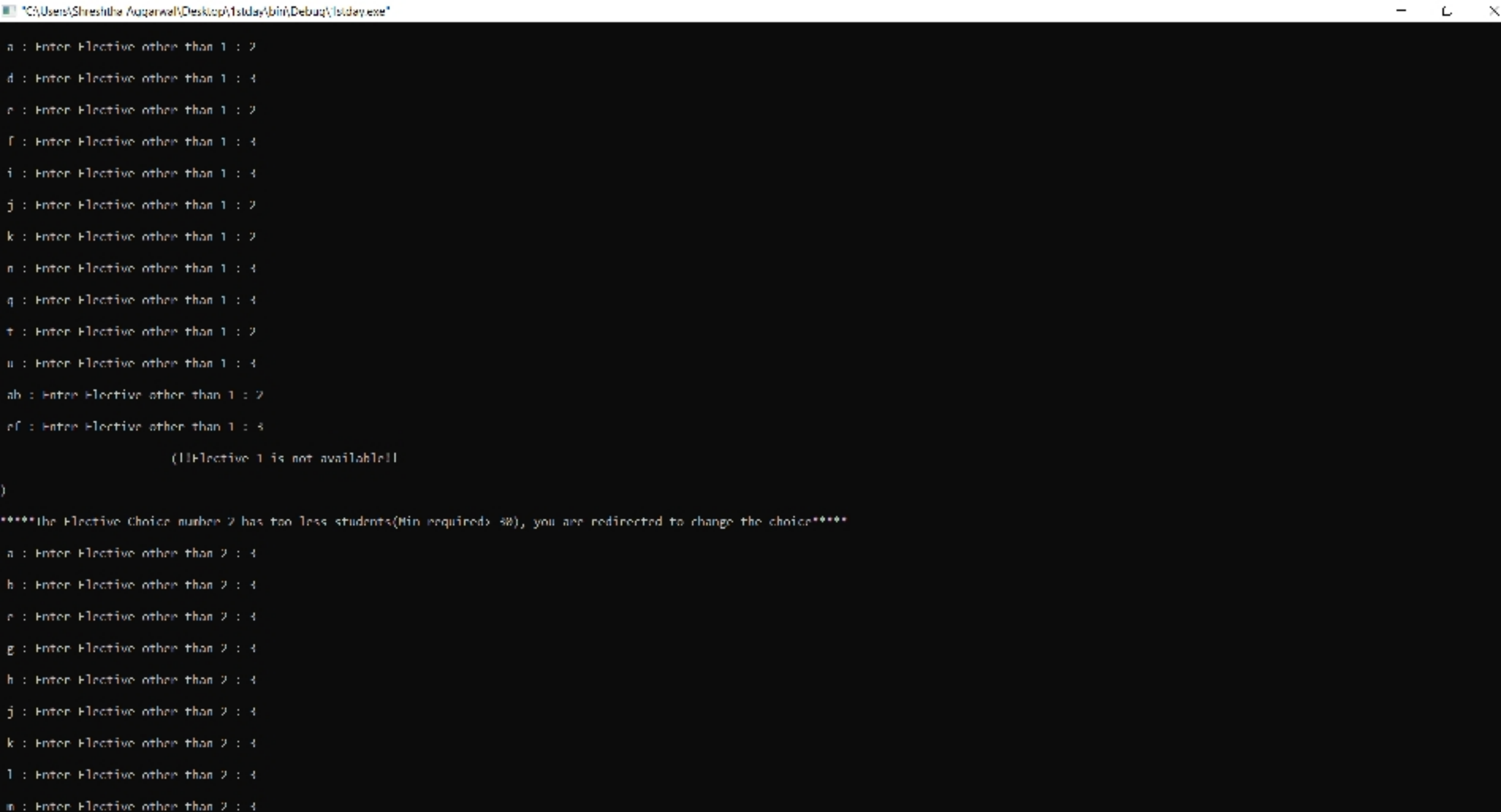
main.c

```
388
389         }
390     }
391
392     void re_getdata(struct Student *S ,int k,int *E ,int  n)
393     {
394       int temp;
395       for(int i=0;i<n;i++)
396             if(S[i].Elective==k)
397             {
398                 printf("\n %s : Enter Elective other than %d : ",S[i].Name,k);
399                 scanf("%d",&temp);
400                 S[i].Elective=temp;
401                 E[temp-1]++;
402                 E[k-1]--;
403
404
405             }
406     }
407
408     void display(struct Student *S ,int *E,int n)
409     {
410
411         for(int i=1;i<=3;i++)
412         {
413             printf("\nThe Number of Students in Elective %d are : %d  \n ",i,E[i-1]);
414             for(int j=0;j<n;j++)
415                 if(S[j].Elective==i)
416                 printf(" <%s> \n",S[j].Name);
417         }
418
419     }
```

```
"C:\Users\Shreshtha Aggarwal\Desktop\1stday\bin\Debug\1stday.exe"

Enter the number of students (min. entries should be 40): 40

Enter the Name Of Student and Choice of Elective : a
1

Enter the Name Of Student and Choice of Elective : b
2

Enter the Name Of Student and Choice of Elective : c
3

Enter the Name Of Student and Choice of Elective : d
1

Enter the Name Of Student and Choice of Elective : e
1

Enter the Name Of Student and Choice of Elective : f
1

Enter the Name Of Student and Choice of Elective : g
2

Enter the Name Of Student and Choice of Elective : h
2

Enter the Name Of Student and Choice of Elective : i
1

Enter the Name Of Student and Choice of Elective : j
1

Enter the Name Of Student and Choice of Elective : k
1

Enter the Name Of Student and Choice of Elective : l
2

Enter the Name Of Student and Choice of Elective : m
2

Enter the Name Of Student and Choice of Elective : n
1

Enter the Name Of Student and Choice of Elective : o
2

Enter the Name Of Student and Choice of Elective : p
2
```

"C:\Users\Shreshtha Aggarwal\Desktop\1stday\bin\Debug\1stday.exe"

```
Enter The Name Of Student and Choice of Elective : q
1

Enter The Name Of Student and Choice of Elective : r
2

Enter The Name Of Student and Choice of Elective : s
3

Enter The Name Of Student and Choice of Elective : t
1

Enter The Name Of Student and Choice of Elective : u
1

Enter The Name Of Student and Choice of Elective : v
2

Enter The Name Of Student and Choice of Elective : w
2

Enter The Name Of Student and Choice of Elective : x
2

Enter The Name Of Student and Choice of Elective : y
2

Enter The Name Of Student and Choice of Elective : z
2

Enter The Name Of Student and Choice of Elective : ab
1

Enter The Name Of Student and Choice of Elective : cd
2

Enter The Name Of Student and Choice of Elective : ef
1

Enter The Name Of Student and Choice of Elective : gh
2

The Current Electives are :
Internet of Things:13
Advanced Java and J2EE:15
Advanced Data Structures):2

*****The Elective Choice number 1 has too less students(Min required> 30), you are redirected to change the choice*****
```


"C:\Users\Shreshtha Aggarwal\Desktop\1stday\bin\Debug\1stday.exe"
a : Enter Elective other than 1 : 2
d : Enter Elective other than 1 : 4
e : Enter Elective other than 1 : 2
f : Enter Elective other than 1 : 4
i : Enter Elective other than 1 : 4
j : Enter Elective other than 1 : 2
k : Enter Elective other than 1 : 2
n : Enter Elective other than 1 : 4
q : Enter Elective other than 1 : 4
t : Enter Elective other than 1 : 2
u : Enter Elective other than 1 : 4
ab : Enter Elective other than 1 : 2
af : Enter Elective other than 1 : 4
(!!Elective 1 is not available!!
)
****the Elective Choice number 2 has too less students(Min required> 40), you are redirected to change the choice****
a : Enter Elective other than 2 : 4
h : Enter Elective other than 2 : 4
e : Enter Elective other than 2 : 4
g : Enter Elective other than 2 : 4
h : Enter Elective other than 2 : 4
j : Enter Elective other than 2 : 4
k : Enter Elective other than 2 : 4
l : Enter Elective other than 2 : 4
n : Enter Elective other than 2 : 4

"C:\Users\Shreshtha Aggarwal\Desktop\1stday\bin\Debug\1stday.exe"

a : Enter Elective other than 2 : 4

p : Enter Elective other than 2 : 4

r : Enter Elective other than 2 : 4

t : Enter Elective other than 2 : 4

v : Enter Elective other than 2 : 4

w : Enter Elective other than 2 : 4

x : Enter Elective other than 2 : 4

y : Enter Elective other than 2 : 4

z : Enter Elective other than 2 : 4

ab : Enter Elective other than 2 : 4

cd : Enter Elective other than 2 : 4

gh : Enter Elective other than 2 : 4

(!!Elective 2 is not available!!

)

*****The Elective Choice number 4 has too less students(Min required> 40), you are redirected to change the choice*****

a : Enter Elective other than 4 : 4

h : Enter Elective other than 4 : 4

c : Enter Elective other than 4 : 4

d : Enter Elective other than 4 : 4

e : Enter Elective other than 4 : 4

f : Enter Elective other than 4 : 4

g : Enter Elective other than 4 : 4

h : Enter Elective other than 4 : 4

i : Enter Elective other than 4 : 4

j : Enter Elective other than 4 : 4

"C:\Users\Shreshtha Aggarwal\Desktop\1stday\bin\Debug\1stday.exe"

```
 ab : Enter Elective other than 3 : 3

 cd : Enter Elective other than 3 : 3

 ef : Enter Elective other than 3 : 3

 gh : Enter Elective other than 3 : 3

The Number of Students in Elective 1 are : 0

The Number of Students in Elective 2 are : 0

The Number of Students in Elective 3 are : 30
  <a>
 <b>
 <c>
 <d>
 <e>
 <f>
 <g>
 <h>
 <i>
 <j>
 <k>
 <l>
 <m>
 <n>
 <o>
 <p>
 <q>
 <r>
 <s>
 <t>
 <u>
 <v>
 <w>
 <x>
 <y>
 <z>
 <ab>
 <cd>
 <ef>
 <gh>

Process returned 0 (0x0)   execution time : 220.393 s
Press any key to continue.
```