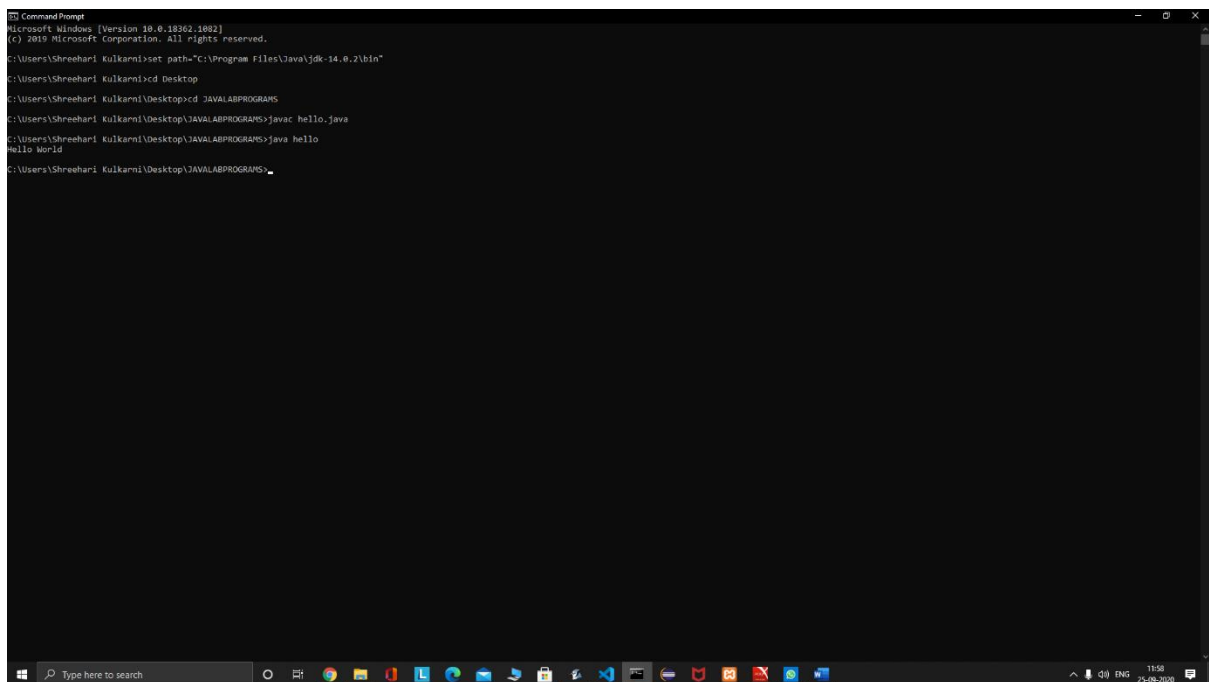


1: Program to print hello world

```
import java.io.*;

public class hello
{
    public static void main(String[] args)
    {
        System.out.println("Hello World");
    }
}
```

OUTPUT..



```
Command Prompt
Microsoft Windows [Version 10.0.18362.1882]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Shreehari Kulkarni>set path="C:\Program Files\Java\jdk-14.0.2\bin"
C:\Users\Shreehari Kulkarni>cd Desktop
C:\Users\Shreehari Kulkarni\Desktop>cd JAVALABPROGRAMS
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>javac hello.java
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>java hello
Hello World
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>
```

2:Program to find the largest of three numbers

```
import java.io.*;
import java.util.*;
public class large
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);
        int a,b,c;
        System.out.println("Enter the first number");
        a=sc.nextInt();
        System.out.println("Enter the second number");
        b=sc.nextInt();
        System.out.println("Enter the third number");
        c=sc.nextInt();

        if(a>b&& a>c)
            System.out.println(a + " " + "Is largest");
        else if(b>a&& b>c)
            System.out.println(b + " " + "Is largest");
        else
            System.out.println(c + " " + "Is Largest");

    }
}
```

OUTPUT:

```
Command Prompt
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>javac large.java
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>java large
Enter the first number
7
Enter the second number
4
Enter the third number
15
15 Is Largest
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>
```

3 : Program to print the values from 1 to n

```
import java.util.*;

public class input
{
    public static void main(String[] args)
    {
        Scanner sc=new Scanner(System.in);

        int n;

        System.out.println("Enter the value of n");
        n=sc.nextInt();

        System.out.println("Printing the values from 1 to n");
        for(int i=1;i<=n;i++)
        {
            System.out.println(i);
        }
    }
}
```

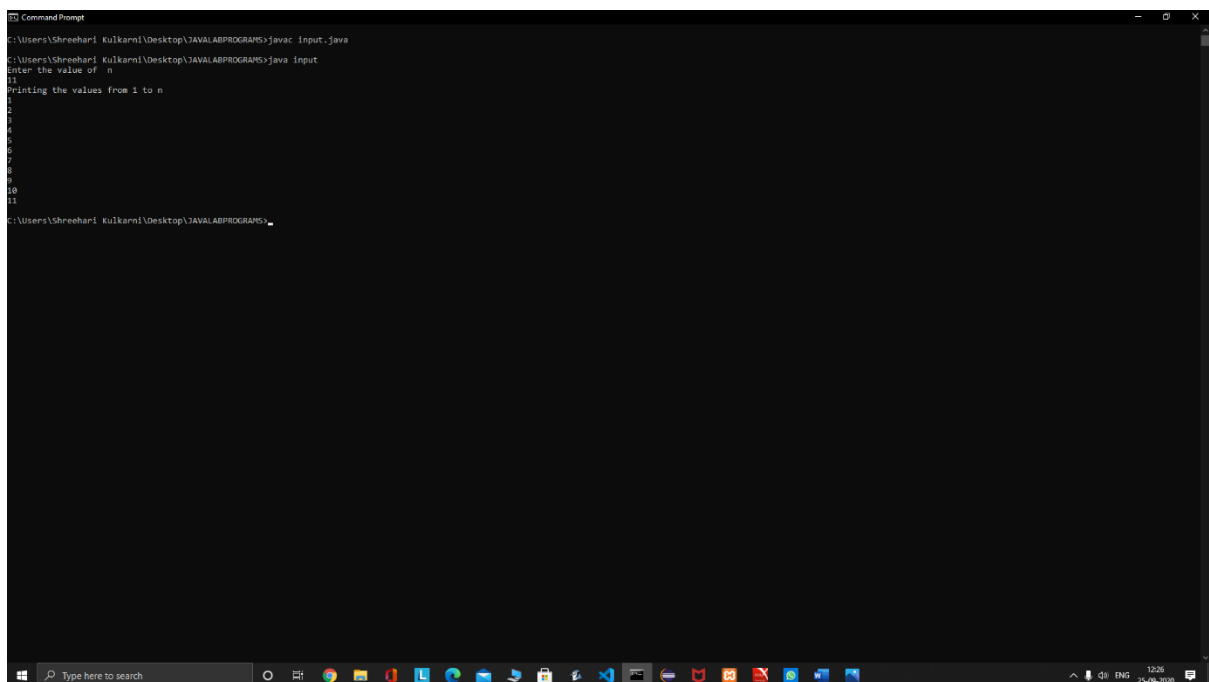
```

    }

}
}

```

OUTPUT:



```

C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>javac input.java
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>java input
Enter the value of n
11
Printing the values from 1 to n
1
2
3
4
5
6
7
8
9
10
11
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>

```

4: Write a program to print the pattern

```

import java.io.*; import java.util.*;

import java.lang.*;

public class firstprogram1
{
    public static void pattern(int n)
    {

```

```

int k=1;
for(int i=1;i<=n;i++)
{
    for(int j=1;j<=i;j++)
    {
        System.out.print(k + " ");
        k++;
    }
    System.out.println();
}

public static void main(String[] args)
{
    Scanner sc=new Scanner(System.in);
    int num;
    System.out.println("Enter the number of rows");
    num=sc.nextInt();
    pattern(num);

}

}

```

OUTPUT:

OUTPUT IS shred in the next screen...

```
Command Prompt
Microsoft Windows [Version 10.0.18362.1002]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Shreehari Kulkarni>set path="C:\Program Files\Java\jdk-14.0.2\bin"
C:\Users\Shreehari Kulkarni>cd Desktop
C:\Users\Shreehari Kulkarni\Desktop>javac firstprogram1.java
C:\Users\Shreehari Kulkarni\Desktop>java firstprogram1
Enter the number of rows
4
1
2 3
4 5 6
7 8 9 10
C:\Users\Shreehari Kulkarni\Desktop>
```

5: program to calculate the grade from cie and see

```
import java.io.*;
import java.lang.*;
import java.util.*;

public class cie_and_see
{
    private static double cie;
    private static double see;

    public static void read()
    {
        Scanner sc=new Scanner(System.in);

        System.out.println("Enter the CIE marks out of 50");
        cie=sc.nextFloat();

        System.out.println("Enter the SEE marks out of 100");
        see=sc.nextFloat();
    }
}
```

```
}
```

```
public static void calc()
{
    read();
    double total=Math.round(cie+((see)/2));
    System.out.println("Total marks obtained is " + total);
    if(total>=90&&total<=100)
    {
        System.out.println("Grade obtained is " + "S");
    }
    else if(total>=80&&total<90)
    {
        System.out.println("Grade obtained is " + "A");
    }
    else if(total>=70&&total<80)
    {
        System.out.println("Grade obtained is " + "B");
    }
    else if(total>=60&&total<70)
    {
        System.out.println("Grade obtained is " + "C");
    }

    else if(total>=50&&total<60)
    {
        System.out.println("Grade obtained is " + "D");
    }

    else if(total>=40&&total<50)
```

```
{  
    System.out.println("Grade obtained is " + "E");  
}  
else  
{  
    System.out.println("Grade obtained is " + "F");  
}  
}  
  
public static void main(String[] args)  
{  
    calc();  
}  
}
```

OUTPUT:

Output is shared in the next screen..



```
Command Prompt
Microsoft Windows [Version 10.0.18362.1062]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Shreehari Kulkarni>set path="C:\Program Files\Java\jdk-14.0.2\bin"
C:\Users\Shreehari Kulkarni>cd Desktop
C:\Users\Shreehari Kulkarni\Desktop>JAVABPROGRAMS
'JAVABPROGRAMS' is not recognized as an internal or external command,
operable program or batch file.
C:\Users\Shreehari Kulkarni\Desktop>cd JAVABPROGRAMS
C:\Users\Shreehari Kulkarni\Desktop\JAVABPROGRAMS>javac cie_and_see.java
cie_and_see.java:11: error: incompatible types: possible lossy conversion from double to int
        int total=Math.ceil(cie*(see/2));
        ^
1 error
C:\Users\Shreehari Kulkarni\Desktop\JAVABPROGRAMS>javac cie_and_see.java
C:\Users\Shreehari Kulkarni\Desktop\JAVABPROGRAMS>java cie_and_see
Enter the CIE marks out of 50
47
Enter the SEE marks out of 100
85
Total marks obtained is 90.0
Grade obtained is S
C:\Users\Shreehari Kulkarni\Desktop\JAVABPROGRAMS>
```

6: write a program to print all prime numbers between two numbers

```
import java.io.*;
import java.lang.*;
import java.util.*;
public class prime
{
    public static boolean checkprime(int n)
    {
        int flag=1;
        for(int i=2;i<=n/2;i++)
        {
            if(n%i==0)
            {
                flag=0;
                break;
            }
        }
    }
}
```

```

    }

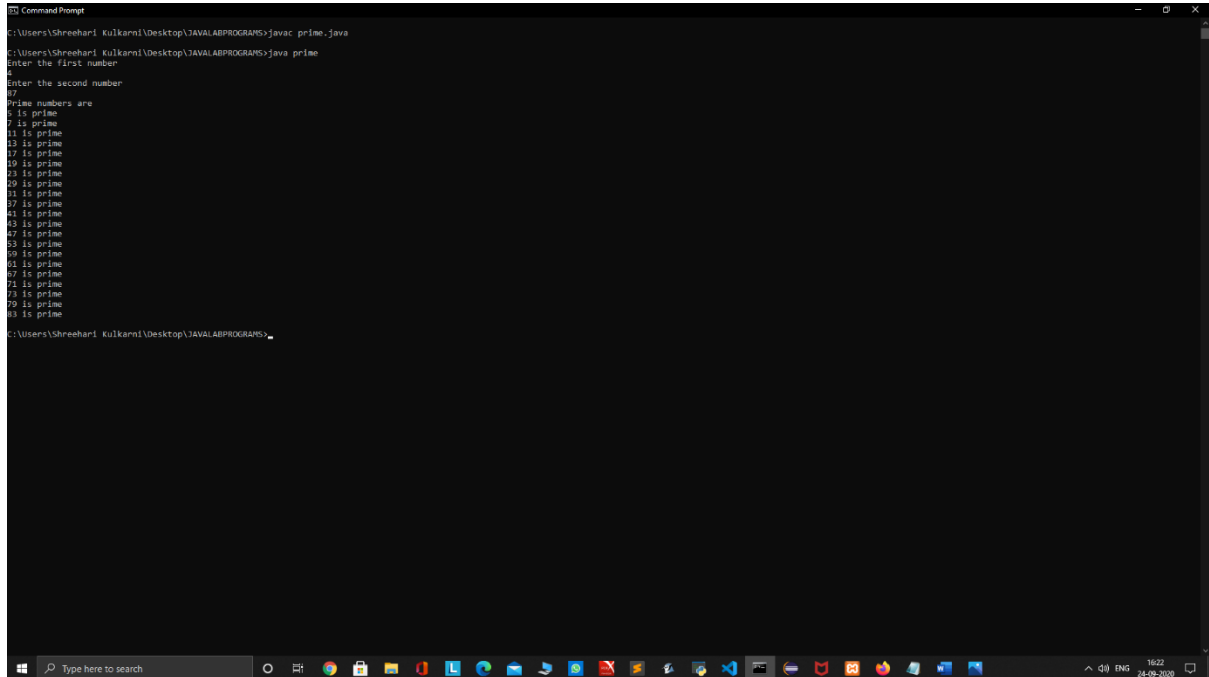
}

if(flag==1)
{
    return true;
}
else
{
    return false;
}
}

public static void main(String[] args)
{
    int a,b;
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter the first number");
    a=sc.nextInt();
    System.out.println("Enter the second number");
    b=sc.nextInt();
    System.out.println("Prime numbers are ");
    for(int i=a;i<=b;i++)
    {
        if(checkprime(i))
        {
            System.out.println(i + " " + "is prime");
        }
    }
}
}

```

OUTPUT:



```
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>javac prime.java
C:\Users\Shreehari Kulkarni\Desktop\JAVALABPROGRAMS>java prime
Enter the first number
5
Enter the second number
17
Prime numbers are
5 is prime
7 is prime
11 is prime
13 is prime
17 is prime
```

7:Program to count the number of students registered for the particular course:

```
#include<stdio.h>
```

```
char name[50][50];
```

```
int choice;
```

```
int choice_new;
```

```
int c_IOT=0;
```

```
int c_advanced_and_j2=0;
```

```
int c_advanced_data_structures=0;
```

```
int n;
```

```
void read()
```

```
{
```

```

printf("Enter the number of students\n");
scanf("%d",&n);
for(int i=0;i<n;i++)
{
    printf("Enter the name of student %d\n",i+1));
    scanf("%s",name[i]);
}
}
int main()
{
    read();
    printf("1:Internet Of Things\n2:Advanced Java And J2EE\n3:Advanced DataStructures\n");

    for(int i=0;i<n;i++)
    {

        printf("Enter the choice of student %s\n",name[i]);
        scanf(" %d",&choice);
        read:
        switch(choice)
        {
            case 1:
                printf("student %s applied for internet of things is \n",name[i]);
                c_IOT++;
                break;

            case 2:
                printf("student %s appllied for advanced java and J2EEE is \n",name[i]);
                c_advanced_and_j2++;
                break;

```

```

case 3:

printf("student %s has applied for Advanced data structures \n",name[i]);

c_advanced_data_structures++;

break;

}

}

printf("Number of students applied for Internet of things is %d \n",c_IOT);

printf("Number of students applied for advanced java and J2EEE is %d \n",c_advanced_and_j2);

printf("Number of students applied for data structures is %d\n",c_advanced_data_structures);

for(;;)

{

    if(c_IOT<=30)

    {

        printf("This Course cannot be floated please select the other from the other two course\n");

        printf("2:Advanced Java And J2EE\n3:Advanced DataStructures\n");

        scanf(" %d",&choice_new);

        break;

    }

    if(c_advanced_and_j2<=30)

    {

        printf("This Course cannot be floated please select the other course\n");

        printf("1:Internet Of Things\n3:Data structures\n");

        scanf(" %d",&choice_new);

        break;

    }

}

```

```

if(c_advanced_data_structures<=30)

{
    printf("This Course cannot be floated please select the other course\n");
    printf("1:Internet Of Things\n2:Advanced java and j2eee\n");
    scanf(" %d",&choice_new);
    break;
}
break;
}
switch(choice_new)
{
    case 1:
        c_IOT++;
        break;

    case 2:
        c_advanced_and_j2++;
        break;

    case 3:
        c_advanced_data_structures++;
        break;
}
printf("*****After modification*****\n");
printf("Number of students applied for Internet of things is %d \n",c_IOT);
printf("Number of students applied for advanced java and J2EEE is %d \n",c_advanced_and_j2);
printf("Number of students applied for data structures is %d\n",c_advanced_data_structures);
}

```

OUTPUT:

Here the output is given number of students as 4

OUTPUT:

```
input
Enter the number of students
4
Enter the name of student 1
Hari
Enter the name of student 2
Subhas
Enter the name of student 3
Harish
Enter the name of student 4
Amar
1:Internet Of Things
2:Advanced Java And JZEE
3:Advanced DataStructures
Enter the choice of student Hari
1
student Hari applied for internet of things is
Enter the choice of student Subhas
1
student Subhas applied for internet of things is
Enter the choice of student Harish
3
student Harish has applied for Advanced data structures
Enter the choice of student Amar
3
student Amar has applied for Advanced data structures
Number of students applied for Internet of things is 2
Number of students applied for advanced java and JZEE is 0
Number of students applied for data structures is 2
This Course cannot be floated please select the other course
1:Internet Of Things
3:Data structures
3
*****After modification*****
Number of students applied for Internet of things is 2
Number of students applied for advanced java and JZEE is 0
Number of students applied for data structures is 3
...Program finished with exit code 0
Press ENTER to exit console
```