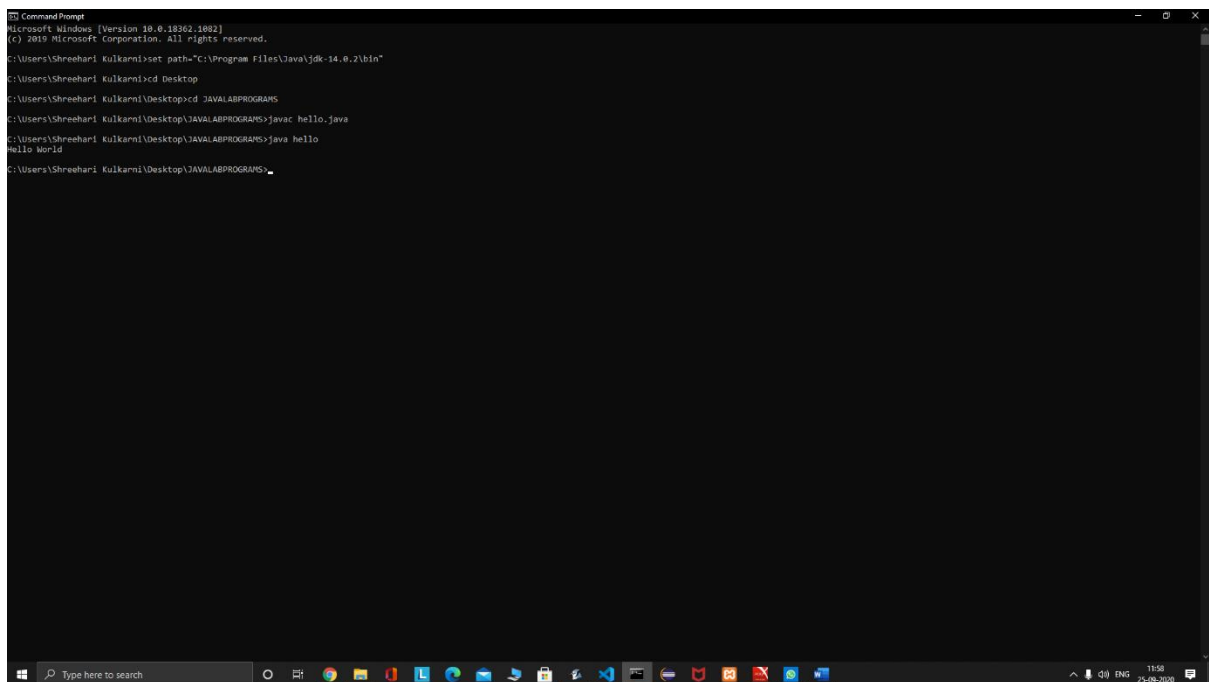


1: Program to print hello world

```
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);
        }
    }
}
```

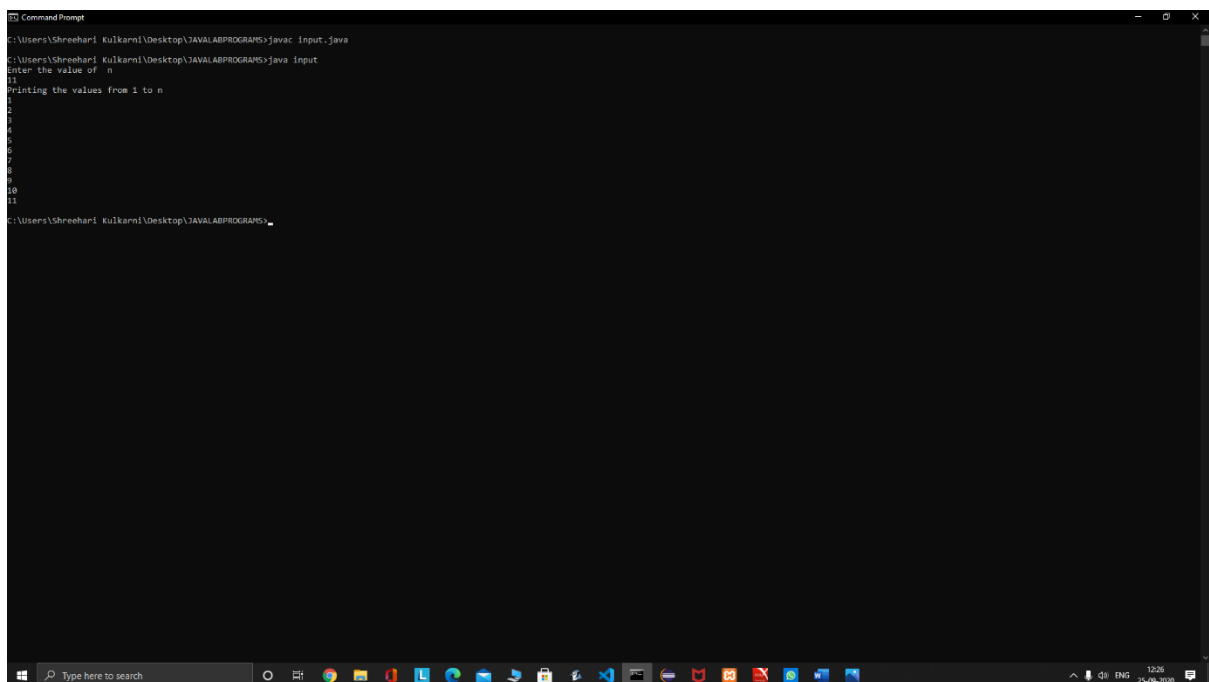
```

    }

}
}

```

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
3 4 5
4 5 6
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 10.0.18362.1002]
(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>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;
            }
        }
    }
}
```

```

    }

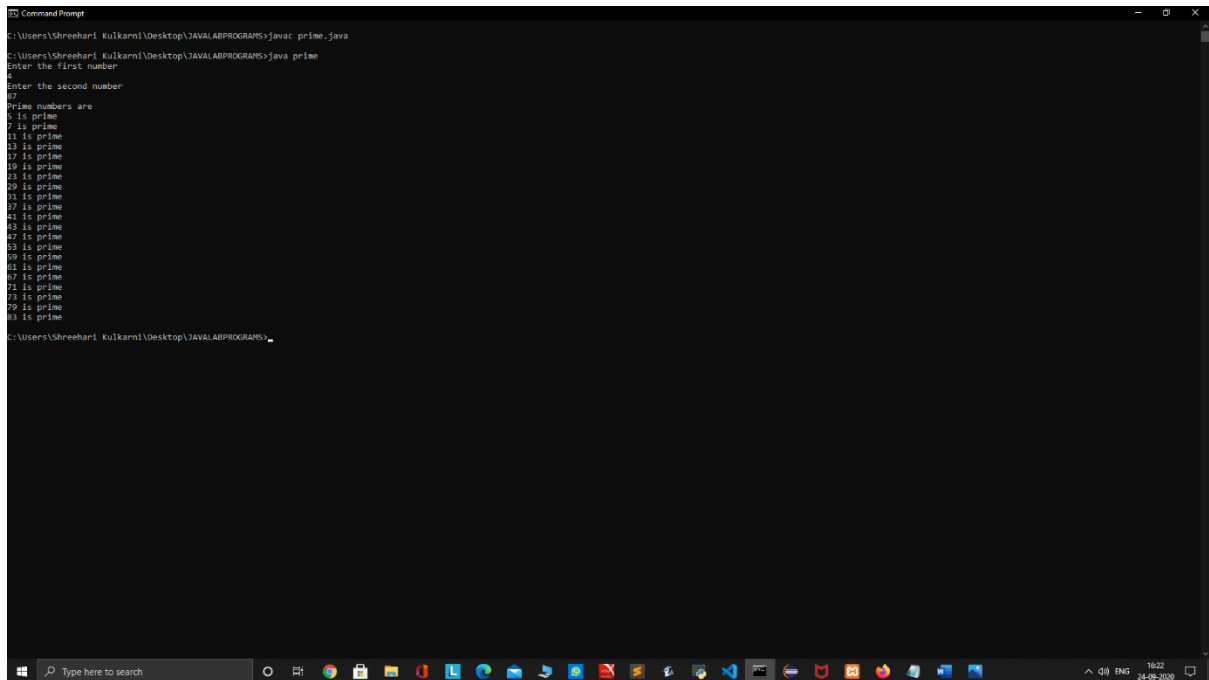
}

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:



```
Command Prompt
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>
#include<string.h>

int iot;

int advanced_java;

int advanced_data;

typedef struct student
{
    char name[50];
    char course[50];

}std;

int main()
{
```

```

char elective1[50]="Internet Of Things";
char elective2[50]="Advanced Java And J2EEE";
char elective3[50]="Advanced DataStructures";

printf("Courses available are \n \t 1:Internet Of Things\n \t2:Advanced Java And J2EEE\n
\t3:Advanced DataStructures\n");

int n;

int choice;

printf("Enter the number of students\n");

scanf("%d",&n);

std s[n];

for(int i=0;i<n;i++)
{
    printf("Enter the name of student %d \n",(i+1));
    scanf("%s", s[i].name);
    fflush(stdin);
    printf("Enter the elective of student %d \n",(i+1));
    printf("enter your choice\n");
    fflush(stdin);
    scanf("%d",&choice);
    switch(choice)
    {
        case 1:
            strcpy(s[i].course,elective1);
            break;

        case 2:
            strcpy(s[i].course,elective2);
            break;

        case 3:
            strcpy(s[i].course,elective3);

```

```

        break;
    }

    fflush(stdin);
}
for(int i=0;i<n;i++)
{
    if(strncmp(elective1,s[i].course,strlen(elective1))==0)
    {
        printf("Student %s has selected for %s course\n",s[i].name,s[i].course);
        iot++;
    }
    if(strncmp(elective2,s[i].course,strlen(elective2))==0)
    {
        printf("Student %s has selected for %s course\n",s[i].name,s[i].course);
        advanced_java++;
    }
    if(strncmp(elective3,s[i].course,strlen(elective3))==0)
    {
        printf("Student %s has selected for %s course\n",s[i].name,s[i].course);
        advanced_data++;
    }
}
printf("*****\n");
printf("Number of student applied for internet of things is %d\n",iot);
printf("Number of students applied for Advanced java and J2EEE is %d\n",advanced_java);
printf("Number of student applied for Advanced DataStructures is %d\n",advanced_data);
if(iot<30)
{
    for(int i=0;i<n;i++)

```

```

{
    if(strncmp(s[i].course,elective1,strlen(elective1))==0)
    {
        printf(" %s please select from the other two course this course cannot be
floated\n",s[i].name);

        printf("2:Advanced Java And J2EEE\n3:Advanced DataStructures\n");
        printf("Enter your new choice\n");
        scanf(" %d",&choice);

        iot=0;
        switch(choice)
        {
            case 2:
                strcpy(s[i].course,elective2);
                advanced_java++;
                break;

            case 3:
                strcpy(s[i].course,elective3);
                advanced_data++;
                break;
        }

    }
}

if(advanced_java<30)
{
    for(int i=0;i<n;i++)
    {
        if(strncmp(s[i].course,elective2,strlen(elective2))==0)
        {

```

```
        printf(" %s please select from the other two course this course cannot be  
floated\n",s[i].name);
```

```
        printf("1:Internet Of Things\n3:Advanced DataStructures\n");
```

```
        printf("Enter your new choice\n");
```

```
        scanf(" %d",&choice);
```

```
        advanced_java=0;
```

```
        switch(choice)
```

```
        {
```

```
            case 1:
```

```
                strcpy(s[i].course,elective1);
```

```
                iot++;
```

```
                break;
```

```
            case 3:
```

```
                strcpy(s[i].course,elective3);
```

```
                advanced_data++;
```

```
                break;
```

```
        }
```

```
    }
```

```
}
```

```
}
```

```
if(advanced_data<30)
```

```
{
```

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

```
    {
```

```
        if(strncmp(s[i].course,elective3,strlen(elective3))==0)
```

```
        {
```

```
            printf(" %s please select from the other two course this course cannot be  
floated\n",s[i].name);
```

```
            printf("1:Internet Of Things\n2:Advanced JAVA and J2EEE\n");
```

```

printf("Enter your new choice\n");
scanf(" %d",&choice);
advanced_data=0;
switch(choice)
{
    case 1:
        strcpy(s[i].course,elective1);
        iot++;
        break;

    case 2:
        strcpy(s[i].course,elective2);
        advanced_java++;
        break;
}

}

}

printf("*****AfterReselection*****\n");
printf("Number of student applied for internet of things is %d\n",iot);
printf("Number of students applied for Advanced java and J2EEE is %d\n",advanced_java);
printf("Number of student applied for Advanced DataStructures is %d\n",advanced_data);
printf("*****\n");
for(int i=0;i<n;i++)
{
    printf("%s has selected %s course\n",s[i].name,s[i].course);
}
}

```



OUTPUT:

```
ah hotstar amazonprime My Projects | GDB o... Introduction to Co... Getting Over It with... https://www.course... https://codepen.io/ https://www.linkedin... https://campus.bms... Embellishing a plot...
Courses available are
1:Internet Of Things
2:Advanced Java And J2EEE
3:Advanced DataStructures
Enter the number of students
5
Enter the name of student 1
Hari
Enter the elective of student 1
enter your choice
1
Enter the name of student 2
Amar
Enter the elective of student 2
enter your choice
2
Enter the name of student 3
Subhas
Enter the elective of student 3
enter your choice
3
Enter the name of student 4
Ananth
Enter the elective of student 4
enter your choice
3
Enter the name of student 5
Harish
Enter the elective of student 5
enter your choice
1
Student Hari has selected for Internet Of Things course
Student Amar has selected for Advanced Java And J2EEE course
Student Subhas has selected for Advanced DataStructures course
Student Ananth has selected for Advanced DataStructures course
Student Harish has selected for Internet Of Things course
*****
Number of student applied for internet of things is 2
Number of students applied for Advanced java and J2EEE is 1
Number of student applied for Advanced DataStructures is 2
Amar please select from the other two course this course cannot be floated
1:Internet Of Things
3:Advanced DataStructures
Enter your new choice
3
```

```
3
Enter the name of student 5
Harish
Enter the elective of student 5
enter your choice
1
Student Hari has selected for Internet Of Things course
Student Amar has selected for Advanced Java And J2EEE course
Student Subhas has selected for Advanced DataStructures course
Student Ananth has selected for Advanced DataStructures course
Student Harish has selected for Internet Of Things course
*****
Number of student applied for internet of things is 2
Number of students applied for Advanced java and J2EEE is 1
Number of student applied for Advanced DataStructures is 2
Amar please select from the other two course this course cannot be floated
1:Internet Of Things
3:Advanced DataStructures
Enter your new choice
3
*****AfterReselection*****
Number of student applied for internet of things is 2
Number of students applied for Advanced java and J2EEE is 0
Number of student applied for Advanced DataStructures is 3
*****
Hari has selected Internet Of Things course
Amar has selected Advanced DataStructures course
Subhas has selected Advanced DataStructures course
Ananth has selected Advanced DataStructures course
Harish has selected Internet Of Things course

...Program finished with exit code 0
Press ENTER to exit console.
```