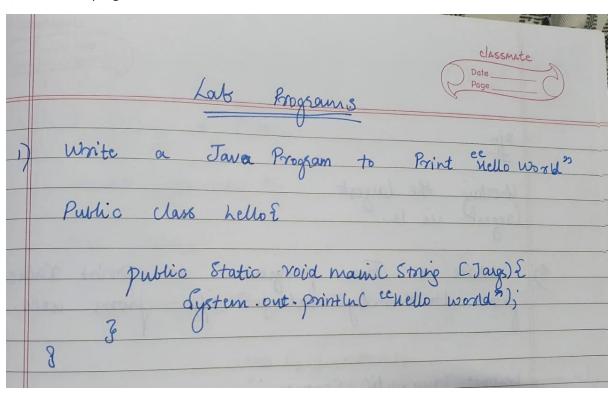
//Hello World program



\$javac hello.java
\$java -Xmx128M -Xms16M hello
Hello World

2) write a Jove Program to find largest of 3 nos using if

Public class large & public static roid main (String [Jangs] & unt a = 10 g t = 3, c = 12;

System out printle ("Checking the largest");

if (a>t 44 a>c)

if (a>t 44 a>c)

if (a>t 45 a>c)

getse if (b7a ff b7c)

getse if (b7a ff b7c)

System out printle (argest is"+a);

getse if (c>a ff c>b)

System out printle (argest is"+b);

getse if (c>a ff c>b)

System out printle ("Cangest is"+c);

getse if (c>a ff c>b)

\$javac hello.java
\$java -Xmx128M -Xms16M hello
Checking the largest
largest is 12

3)	write a Java program to print Yalue from 1to n by taking life from user.
	impost java. util. Scamer;
	Public class Print N
	Public Static void main (String[] aug)
	int i=1
System.out	Scanner Sc = new Scanner (System. in); - print (Enter"); int n = 8c. next Int ();
	System. out. proitle (ex Number are: Su)
-10 200	\$
	System.out. Printin(i);
-	3 it+)
	1
	Constitution of the same
	1
	Enter n: 3
	1
	2
	3
1	

```
import java.util.*;
class PrintN
        public static void main(String[] args)
        {
                int i =1;
                Scanner Sc = new Scanner(System.in);
                System.out.print("Enter the value n : ");
                int n = Sc.nextInt();
                System.out.println("Numbers are : ");
                while(i<=n)
                {
                        System.out.println(i);
                        i++;
                }
        }
}
```

```
C:\Users\Samarth\Documents\lab programs>javac PrintN.java

C:\Users\Samarth\Documents\lab programs>java PrintN

Enter the value n : 5

Numbers are :
1
2
3
4
5

C:\Users\Samarth\Documents\lab programs>
```

	ruge
4)	11 Priting a Pattern
	import java.uti(.*)
	class Pattern
A	Public Static void main (String args (I)
	disting of non=1; dearmer & C = new & Canner (System.n); System.out.print(e Enter the number of rows?; uit n = & c. next Int(); for (i-1; i <=n; it+)
	System. out. println(num+ ec\t"); num+t; System. out. println(ce\no"); g 3
	Property of the state of the st

```
import java.util.*;
class Pattern
        public static void main(String args[])
        {
                int i, j , num=1;
                Scanner Sc = new Scanner(System.in);
                System.out.print("Enter the number of rows : ");
                int n = Sc.nextInt();
                for(i=1;i<=n;i++)
                {
                    for(j=1;j<=i;j++)</pre>
                         System.out.println(num+"\t");
                         num++;
                    System.out.println("\n");
                }
        }
}
```

```
import jowa vtil ;
Class Grade &
       public Static void main (String ages (7) {
        Scourmer in = new Scannor (System in);
        unt cieg sees total=0;
        Char grade;
        Lystom. Out printle le Enter the CIE marks
         ( ... out of 500 9);
         (ie = in. next In();
         System out . Printin ( ee k Her the SIE marks
          ... out of 100 ) ");
         See = in next Int ();
         total = ( cie + (see 12));
          if ( total 7-90 &8 total <= 100)
          alystem.out. println (ce & Grade");
          else if (total > = 80 ff total (90)
         System. out. printly (ee A Grade );
         etre if Ltotal > = 70 ff total (80)
          System. Out. printle (le B brade );
          close if (total >=60 st total <10)
          System. out. printly (ec C Grade )
          else if 6 total 7=50 ff total (60)
System. out. printh Lee D 6 rade 20);
         the if Ltotal > =40 fl total (50)
          System. out. privater Lee & breade
          close if (total (40)
          else Fintle Lee F Grade 97 );
          System. out. printle (ce Invalid")
```

```
import java.util.*;
class Grade {
       public static void main(String args[]) {
      Scanner in = new Scanner(System.in);
       int cie,see,total=0;
      char grade;
      System.out.println("Enter the CIE marks ..Out of 50)");
       cie=in.nextInt();
      System.out.println("Enter the SIE marks ..Out of 100)");
       see=in.nextInt();
      total=(cie+(see/2));
       if(total>=90 && total<=100)
      System.out.println("S Grade");
      else if(total>=80 && total<90)
      System.out.println("A Grade");
      else if(total>=70 && total<80)
      System.out.println("B Grade");
      else if(total>=60 && total<70)
      System.out.println("C Grade");
      else if(total>=50 && total<60)
      System.out.println("D Grade");
      else if(total>=40 && total<50)
      System.out.println("E Grade");
      else if(total<40)
      System.out.println("F Grade");
      System.out.println("Invalid");
      }
}
```

```
C:\Users\Samarth\Documents\lab programs>javac Grade.java
C:\Users\Samarth\Documents\lab programs>java Grade
Ente1 the CIE marks ..Out of 50)
40
Ente1 the SIE marks ..Out of 100)
85
A Grade
C:\Users\Samarth\Documents\lab programs>
```

WAP to print all the prime no 6/w. umpost java. util. * ; class Prime & Public Static void main & String args []) &
Scamo un - new obcourses (System. in); unt num1, num 2; dystem. Pout. println(ec Enter 1st nos?); num1 = in next Int (); System. out. printlul ec Enter 2nd no 97); num 2 = in next Intl); fool l'nt k=num1; K<=num2; K++) { Hage false; else for (int i=2; ixk; it+) uj (flag) {
System. out. print la (1c) j

```
import java.util.*;
class Prime {
     public static void main(String[] args) {
     Scanner in=new Scanner(System.in);
     int numl ,num2;
     boolean flag;
     System.out.println("Enter the first no");
     numl =in.nextInt();
     System.out.println("Enter the second number:");
     num2=in.nextInt();
     for (int k = numl; k \le num2; k++) {
     flag = true;
     if(k < 2)
          flag = false;
     }
     else {
     for (int i = 2; i < k; i++) {
     if(k\%i==0){
          flag = false;
     }
     if(flag){
       System.out.println(k);
```

```
C:\Users\Samarth\Documents\lab programs>javac Prime.java

C:\Users\Samarth\Documents\lab programs>java Prime
Enter the first no

Enter the second number:

12

7

11

C:\Users\Samarth\Documents\lab programs>
```

```
7<sup>TH</sup> program ...
#include <stdio.h>
#include <stdlib.h>
struct student {
  char name[25];
  int option;
};
int n=0,i=0,j,t=0;
char ch='c';
int a=0,b=0,c=0;
struct student s[100];
int main()
```

```
{
  printf("ENTER THE STUDENT DETAILS AND ELECTIVES FOR THE COURSES BELOW\n\n");
   while(ch=='c'){
       printf("Enter the name:\n");
       scanf("%s",s[t].name);
       printf("Enter the corresponding option\n1.JEE\n2.NEET\n3.ADVANCE\n");
       scanf("%d",&s[t].option);
      t++;
       printf("Enter 'c' to continue or press any key to leave\n");
       scanf("%s",&ch);
  }
  printf("the students elected for the diff choices are listed below\n\n');
    printf("The students registered for 1.JEE are\n\n");
    for(j=0;j<t;j++){
      if(s[j].option==1){
         printf("%s\n",s[j].name);
      }
    }
    printf("The students registered for 2.NEET are\n\n");
      for(j=0;j<t;j++){
      if(s[j].option==2){
```

```
printf("%s\n",s[j].name);
    }
  }
  printf("The students registered for 3.ADVANCE are\n\n");
    for(j=0;j<t;j++){
    if(s[j].option==3){
      printf("%s\n",s[j].name);
    }
  }
for(j=0;j<t;j++){
  if(s[j].option==1){
    a++;
  }
  else if(s[j].option==2){
    b++;
  }
  else if(s[j].option==3){
    C++;
  }
printf("the total no of students in each Elective are:\n\n");
printf("1.JEE %d\n",a);
printf("2.NEET %d\n",b);
printf("3.ADVANCE %d\n",c);
```

}

```
if(a>=3&&b>=3&&c>=3){
  printf("The students registered for 1.JEE are\n");
  for(j=0;j<t;j++){
    if(s[j].option==1){
      printf("%s\n",s[j].name);
    }
  }
  printf("The students registered for 2.NEET are\n");
   for(j=0;j<t;j++){
    if(s[j].option==2){
      printf("%s\n",s[j].name);
    }
  }
  printf("The students registered for 3.ADVANCE are\n");
   for(j=0;j<t;j++){
    if(s[j].option==3){
      printf("%s\n",s[j].name);
    }
  }
}
if(a>=3\&\&b>=3\&\&c<3){
```

printf("The students elected for the course 3.ADVANCE will not be floated due participants less than 30 so kindly please register ureself to the any of the other two courses\n");

```
for(i=0;i<c;i++){
   printf("%s select any of the courses below\n1.JEE\n2.NEET\n",s[i].name);
   scanf("%d",&s[i].option);
 }
 int a1=0,b1=0;
 for(i=0;i<t;i++){
   if(s[i].option==1){
     a1++;
   }
   else if(s[i].option==2){
     b1++;
   }
 }
printf("the total no of students in each Elective are:\n");
printf("1.JEE %d\n",a1);
printf("2.NEET %d\n",b1);
printf("Name of the students in each Elective are as follows:\n\n");
printf("students elected JEE are :\n");
for(i=0;i<a1;i++){
  printf("%s\n",s[i].name);
}
```

```
printf("students elected NEET are :\n");
  for(i=0;i<b1;i++){
    printf("%s\n",s[i].name);
  }
  }
  if(a>=3\&\&b<3\&\&c>=3){
    printf("The students elected for the course 2.NEET will not be floated due participants less than
30 so kindly please register ureself to the any of the other two courses\n\
   for(i=0;i<b;i++){
     printf("%s select any of the courses below\n1.JEE\n3.ADVANCE\n",s[i].name);
     scanf("%d",&s[i].option);
   }
   int a2=0,c2=0;
   for(i=0;i<t;i++){
     if(s[i].option==1){
        a2++;
     }
     else if(s[i].option==3){
       c2++;
     }
   }
```

```
printf("the total no of students in each Elective are:\n\n");
  printf("1.JEE %d\n",a2);
  printf("2.ADVANCE %d\n",c2);
  printf("Name of the students in each Elective are as follows:\n\n");
  printf("students elected JEE are :\n\n");
  for(i=0;i<a2;i++){
    printf("%s\n",s[i].name);
  }
  printf("students elected ADVANCE are :\n\n");
  for(i=0;i<c2;i++){
    printf("%s\n",s[i].name);
  }
}
  if(a<3&&b>=3&&c>=3){
    printf("The students elected for the course 1.JEE will not be floated due participants less than 30
so kindly please register ureself to the any of the other two courses\n\n");
   for(i=0;i<a;i++){
     printf("%s select any of the courses below\n2.NEET\n3.ADVANCE\n",s[i].name);
     scanf("%d",&s[i].option);
   }
    int b3=0,c3=0;
   for(i=0;i<t;i++){
```

```
if(s[i].option==2){
     b3++;
   }
   else if(s[i].option==3){
     c3++;
   }
 }
printf("the total no of students in each Elective are:\n\n");
printf("1.NEET %d\n",b3);
printf("2.ADVANCE %d\n",c3);
printf("Name of the students in each Elective are as follows:\n\n");
printf("students elected NEET are :\n");
for(i=0;i<b3;i++){
  printf("%s\n",s[i].name);
}
printf("students elected ADVANCE are :\n\n");
for(i=0;i<c3;i++){
  printf("%s\n",s[i].name);
}
```

}

}

```
ENTER THE STUDENT DETAILS AND ELECTIVES FOR THE COURSES BELOW
Enter the name:
Samarth
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
Enter 'c' to continue or press any key to leave
Enter the name:
Shivanshu
Enter the corresponding option
2.NEET
3.ADVANCE
Enter 'c' to continue or press any key to leave
Enter the name:
Subash
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
```

```
Enter the corresponding option
1.JEE
2.NEET
3.ADVANCE
JEE
Enter 'c' to continue or press any key to leave
the students elected for the diff choices are listed below
The students registered for 1.JEE are
Shivanshu
The students registered for 2.NEET are
Samarth
The students registered for 3.ADVANCE are
Subash
the total no of students in each Elective are:
1.JEE 1
2.NEET 1
3.ADVANCE 1
...Program finished with exit code 0
```

Press ENTER to exit console.