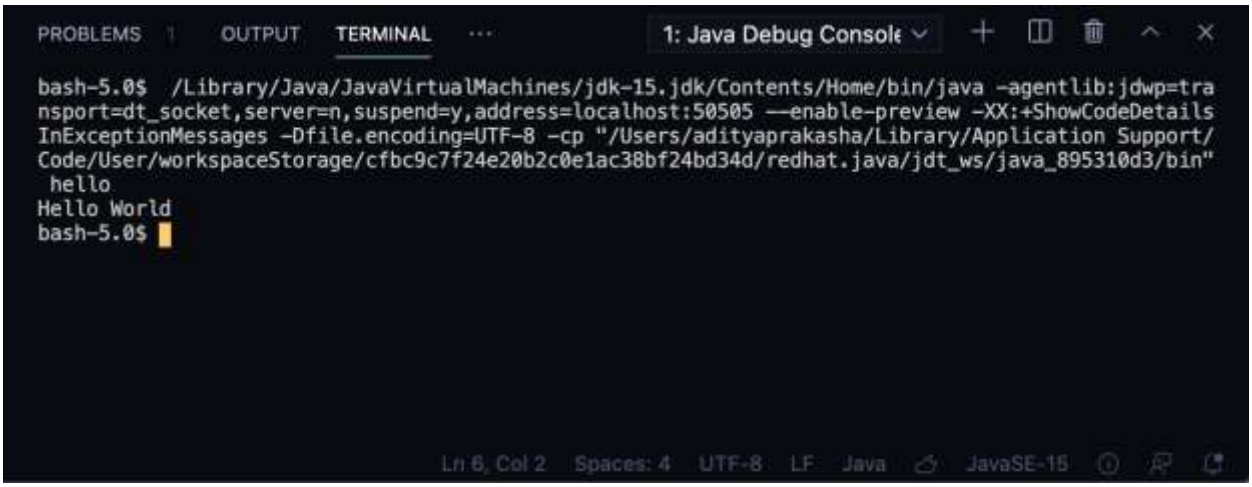
1: Program to print hello world

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

output:

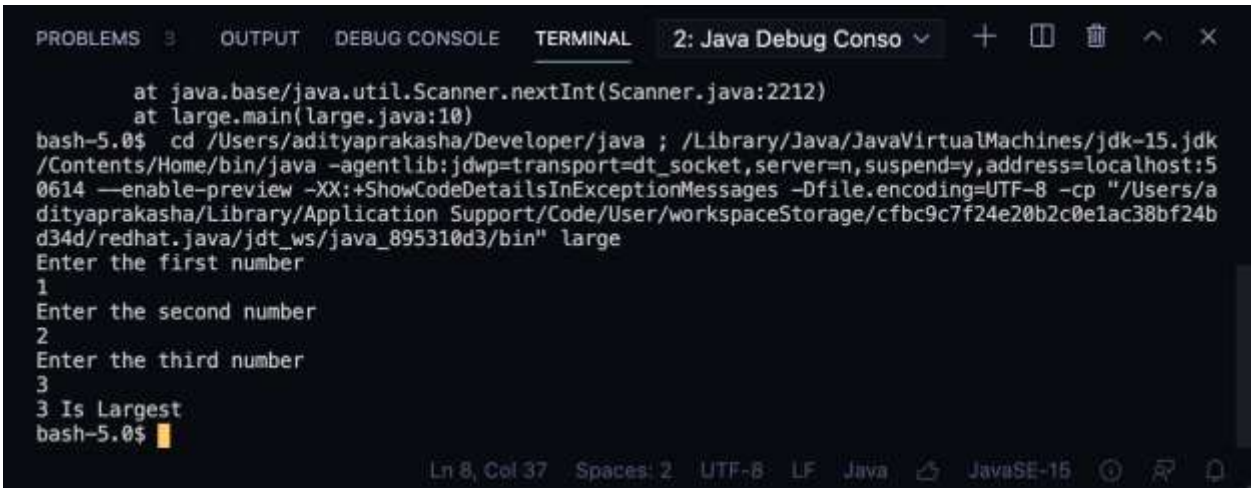


2:Program to find the largest of three numbers

```
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:

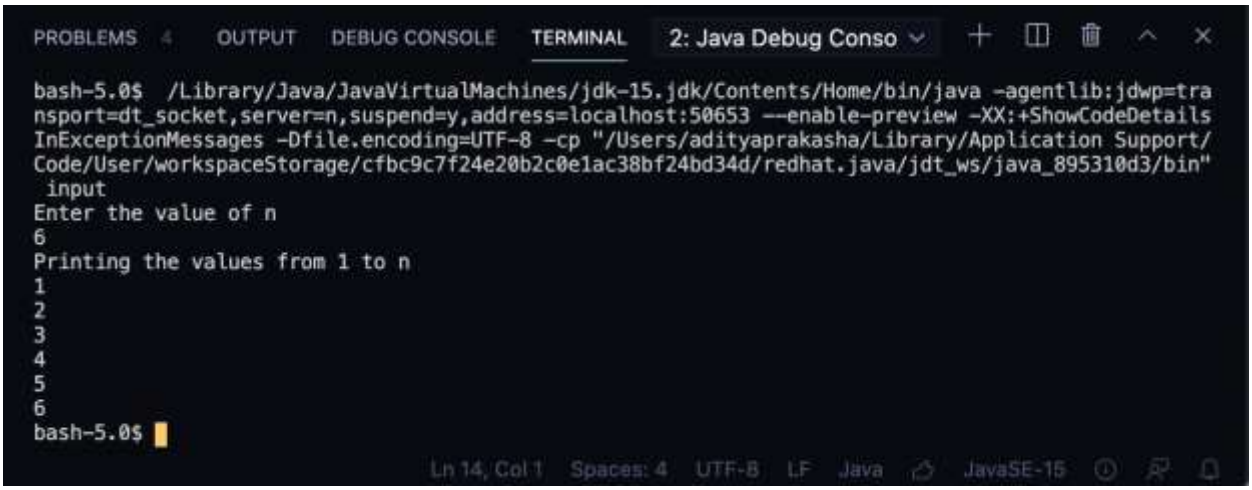


3 : Program to print the values from 1 to n

```
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:

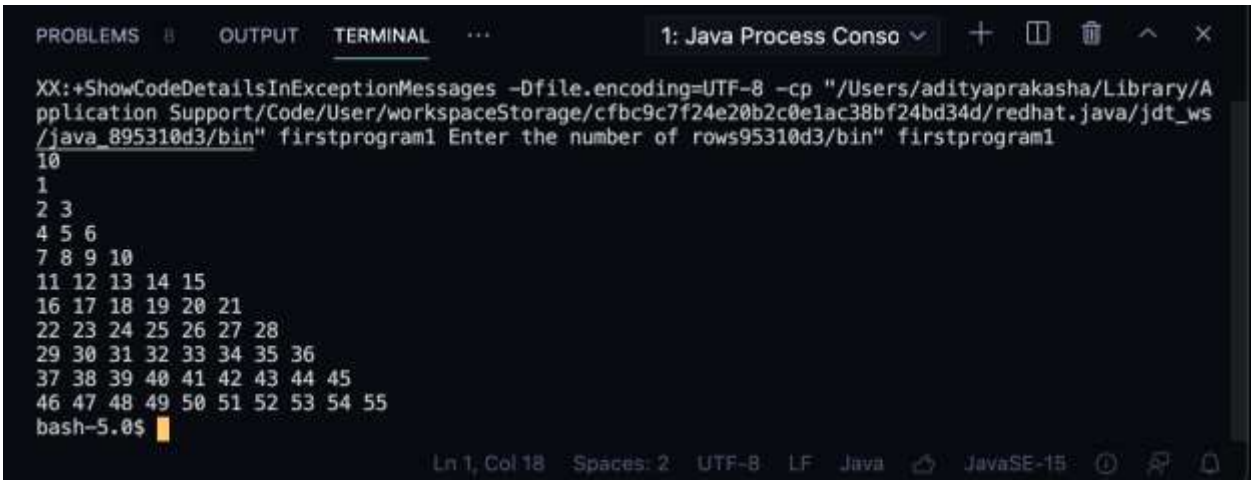


4: Write a program to print the pattern

```
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:



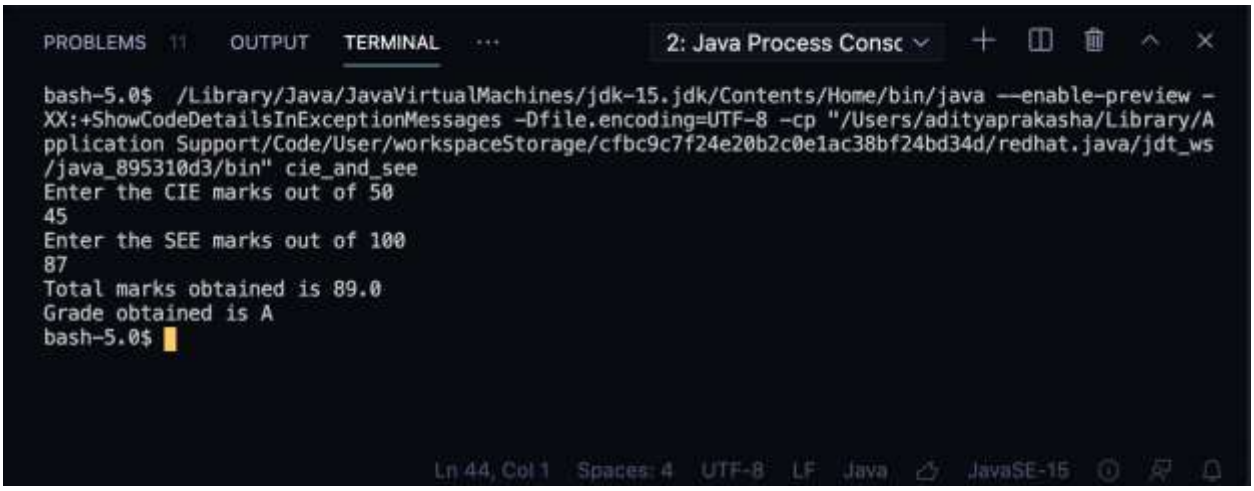
5: program to calculate the grade from cie and see

```
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:



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");

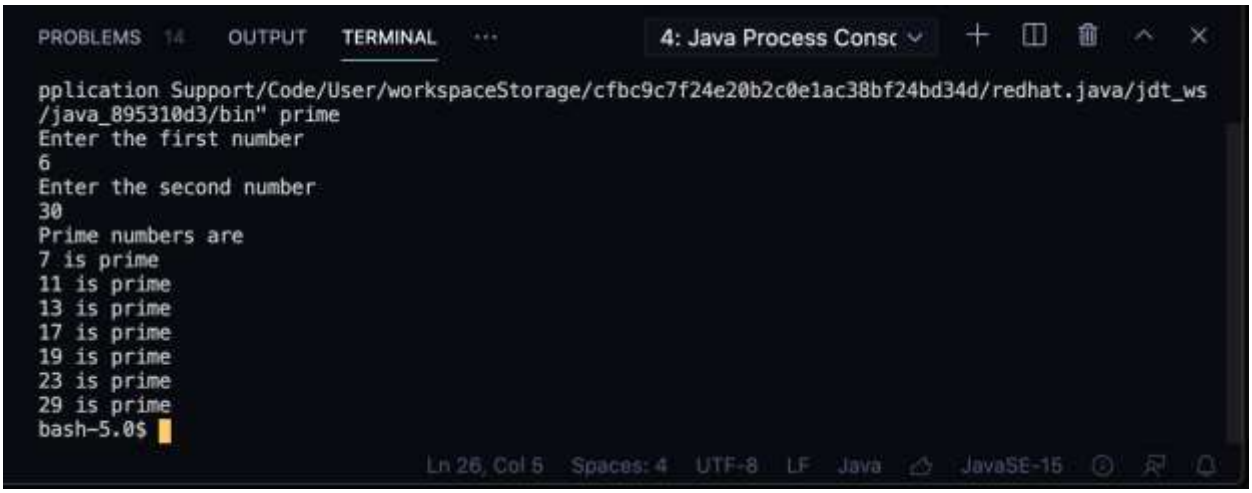
}

}

}

}

output:



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:

```
Input
Courses available are
        1:Internet Of Things
       2:Advanced Java And J2EEE
       3:Advanced DataStructures
Enter the number of students
2
Enter the name of student 1
nikhil
Enter the elective of student 1
enter your choice
2
Enter the name of student 2
arjun
Enter the elective of student 2
enter your choice
3
Student nikhil has selected for Advanced Java And J2EEE course
Student arjun has selected for Advanced DataStructures course
**************************************
Number of student applied for internet of things is 0
Number of students applied for Advanced java and J2EEE is 1
Number of student applied for Advanced DataStructures is 1
 nikhil please select from the other two course this course cannot be floated
1:Internet Of Things
3:Advanced DataStructures
Enter your new choice
1
 arjun please select from the other two course this course cannot be floated
1:Internet Of Things
2:Advanced JAVA and J2EEE
Enter your new choice
3
***********AfterReselection*************
Number of student applied for internet of things is 1
Number of student applied for Advanced Java and J2EEE is 0
Number of student applied for Advanced Datastructures is 0
************************************************
```

```
Student nikhil has selected for Advanced Java And J2EEE course
Student arjun has selected for Advanced DataStructures course
**************************************
Number of student applied for internet of things is 0
Number of students applied for Advanced java and J2EEE is 1
Number of student applied for Advanced DataStructures is 1
 nikhil please select from the other two course this course cannot be floated
1:Internet Of Things
3:Advanced DataStructures
Enter your new choice
1
 arjun please select from the other two course this course cannot be floated
1:Internet Of Things
2:Advanced JAVA and J2EEE
Enter your new choice
3
***********AfterReselection*************
Number of student applied for internet of things is 1
Number of student applied for Advanced Java and J2EEE is 0
Number of student applied for Advanced Datastructures is 0
************************************************
nikhil has selected Internet Of Things course
arjun has selected Advanced DataStructures course


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