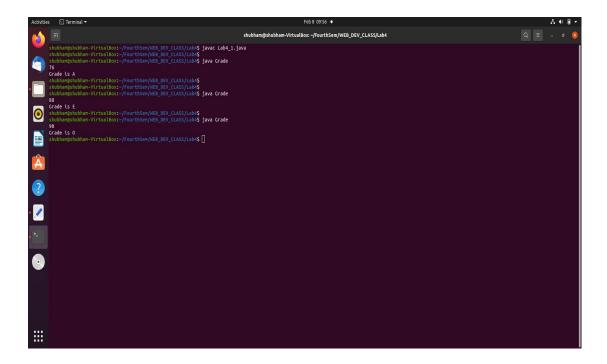
LAB ASSIGNMENT - 4

 ${\bf 1}$. a . PROGRAM TO PRINT THE CORRESPONDING GRADE FOR THE GIVEN MARK USING if...else STATEMENT IN JAVA.

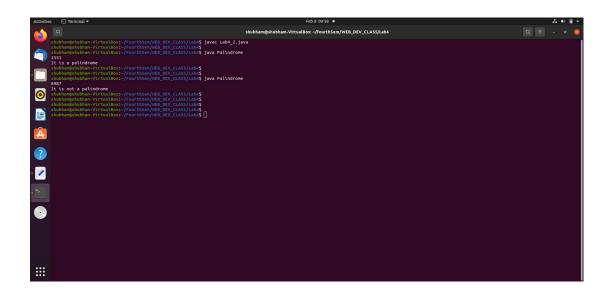
```
import java.util.*;
class Grade
public static void main(String args[])
 Scanner sc=new Scanner(System.in);
 int marks=sc.nextInt();
 if(marks>=90)
       System.out.println("Grade is O ");
 else if(marks>=80)
       System.out.println("Grade is E ");
 else if(marks>=70)
       System.out.println("Grade is A ");
 else if(marks>=60)
       System.out.println("Grade is B ");
 else
       System.out.println("Grade is below B");
 sc.close();
```



1. b. PROGRAM TO CHECK A USER ENTERED NUMBER IS PALINDROME OR NOT.

```
import java.util.*;
class Palindrome
{
  public static void main(String args[])
  {
    Scanner sc=new Scanner(System.in);
    int org_num,num,rev_num=0;
    num=sc.nextInt();
    org_num=num;
    while(num!=0)
    {
      int rem=num%10;
      rev_num=rev_num*10+rem;
      num=num/10;
    }
    if(org_num==rev_num)
```

```
System.out.println("It is a palindrome");
else
System.out.println("It is not a palindrome");
sc.close();
}
```



2 a. PRINT THE FOLLOWING PATTERN IN THE QUESTION:-

```
class Pattern
{
  public static void main(String args[])
{
  char ch='A';

  for(int i=0;i<4;i++)
  {
    for(int j=0;j<=i;j++)
    {
      System.out.print(ch+" ");

      ch++;
    }

  ch++;
  System.out.print("\n");
}</pre>
```

```
}
}
```

2.b. PRINT THE FOLLOWING PATTEN GIVEN IN THE QUESTION:-

```
else
{
    ++count1;
    System.out.print((i + k - 2 * count1) + " ");
}

++k;
}
count1 = count = k = 0;

System.out.println();
}
}
```