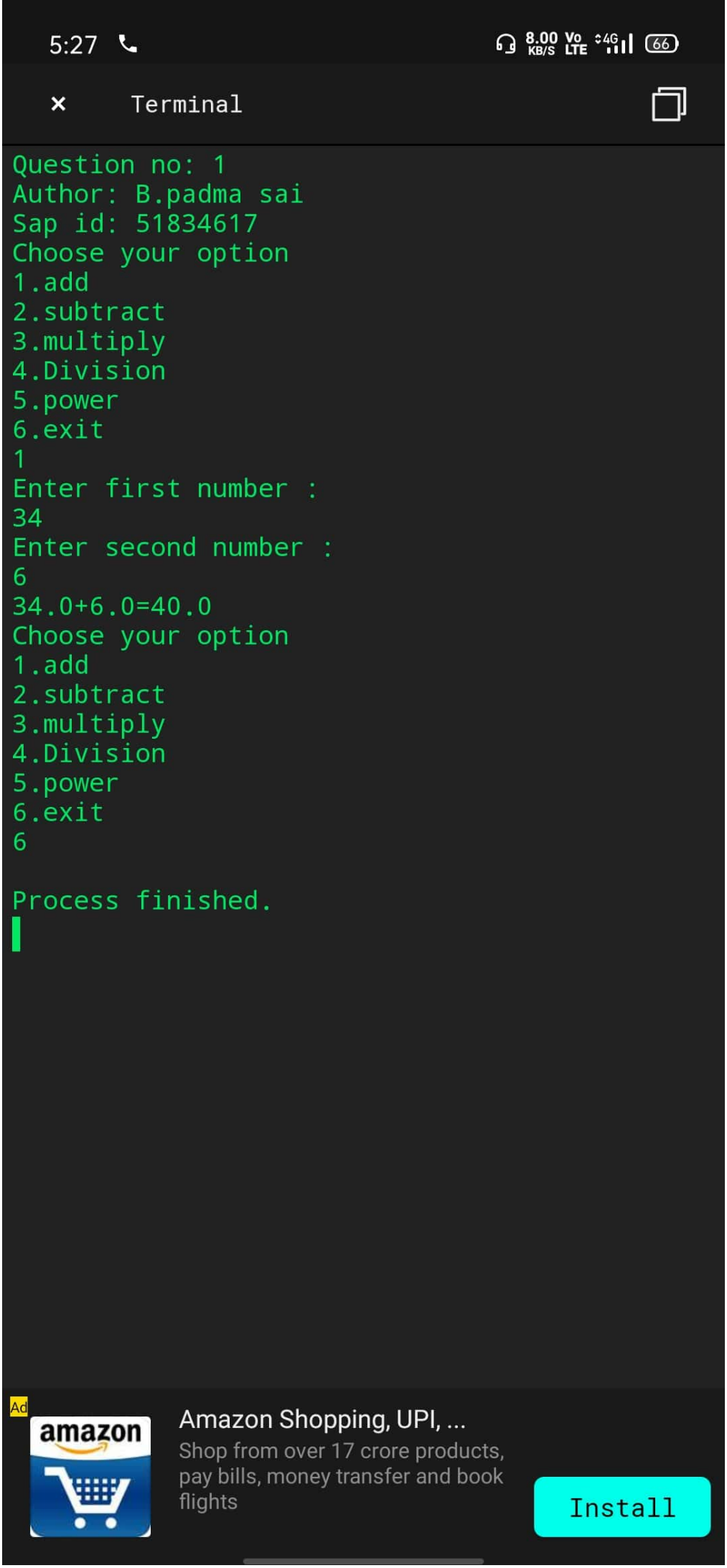
day2.java

Saved

```java
import java.util.Scanner;
import java.lang.Math;
import java.util.InputMismatchException;
class Calculator
 {
    int add(int no1,int no2)
    {
        return no1+no2;
    }
    double add(double no1,double no2)
    {
        return no1+no2;
    }
    float add(float no1,float no2)
    {
        return no1+no2;
    }
    int sub(int no1,int no2)
    {
        return no1-no2;
    }
    double sub(double no1,double no2)
    {
        return no1-no2;
    }
    float sub(float no1,float no2)
    {
        return no1-no2;
    }
    int mul(int no1,int no2)
    {
        return no1*no2;
    }
    double mul(double no1,double no2)
    {
        return no1*no2;
    }
    float mul(float no1,float no2)
    {
        return no1*no2;
    }
    int div(int no1,int no2)
    {
        return no1/no2;
    }
    double div(double no1,double no2)
    {
        return no1/no2;
    }
    float div(float no1,float no2)
    {
        return no1/no2;
    }
    long power(int no1,int no2) throws Exception
    {
      if(no1<0 || no2<0)
      {
         throw new Exception("no1 or no2 can't be ne
      }
      if(no1==0 || no2==0)
      {
         throw new Exception("no1 or no2 can't be ze
      }
      return (long)Math.pow(no1,no2);
    }
}
class Solution
{
   public static void main(String args[])
   {
     System.out.println("Question no: 1");
     System.out.println("Author: B.padma sai");
     System.out.println("Sap id: 51834617");
     Scanner sc=new Scanner(System.in);
     Calculator c=new Calculator();
     try
     {
      while(true)
      {

        System.out.println("Choose your option\n1.add
        int option=sc.nextInt();
        switch(option)
        {
          case 1 :
            System.out.println("Enter first number :
            double first=sc.nextInt();
            System.out.println("Enter second number :
            double second=sc.nextInt();
            System.out.println(first+"+"+second+"="+c
            break;
          case 2 :
            System.out.println("Enter first number :
            first=sc.nextInt();
            System.out.println("Enter second number :
            second=sc.nextInt();
            System.out.println(first+"-"+second+"="+c
            break;
          case 3 :
            System.out.println("Enter first number :
            first=sc.nextInt();
            System.out.println("Enter second number :
            second=sc.nextInt();
            if(first==0 && second==0)
            {
              throw new Exception("Both numbers canno
            }
            System.out.println(first+"*"+second+"="+c
            break;
          case 4 :
            System.out.println("Enter first number :
            first=sc.nextInt();
            System.out.println("Enter second number :
            second=sc.nextInt();
            if(second==0)
            {
              throw new Exception("You cannot divide
            }
            System.out.println(first+"/"+second+"="+c
            break;
          case 5 :
            System.out.println("Enter the base number
            int base=sc.nextInt();
            System.out.println("Enter the exponent :
            int exp=sc.nextInt();
            System.out.println(c.power(base,exp));
            break;
          case 6 :
            System.exit(0);
          default :
            System.out.println("Invalid input");
         }
        }
       }
       catch(InputMismatchException i)
        {
          System.out.println("Invalid input");
        }
        catch(ArithmeticException ae)
        {
          System.out.println(ae.getMessage());
        }
        catch(Exception e)
        {
          System.out.println(e.getMessage());
        }
    }
}
```



recursion.java

Saved

```java
import java.util.Scanner;
public class RecursionPalindrome
{
   // to check if string is palindrome using recursio
   public static boolean checkPalindrome(String str)
   {
    if(str.length() == 0 || str.length() == 1)
      return true;
    if(str.charAt(0) == str.charAt(str.length() - 1))
      return checkPalindrome(str.substring(1, str.len
      return false;
   }
   public static void main(String[]args)
   {
     System.out.println("Question no:2");
     System.out.println("Author: B.padmasai");
     System.out.println("Sap id: 51834617");
      Scanner sc = new Scanner(System.in);
      System.out.println("Enter a string : ");
      String strInput = sc.nextLine();
      if(checkPalindrome(strInput))
      {
       System.out.println(strInput + " is palindrome"
      }
      else
      {
       System.out.println(strInput + " not a palindro
      }
      sc.close();
   }
}
```

Terminal

```
Question no:2
Author: B.padmasai
Sap id: 51834617
Enter a string :
roor
roor is palindrome
```

day2.java

Saved

```java
import java.util.*;
public class OddNumbers
{
  public static void main (String[] args)
  {
    System.out.println("Question no:3");
    System.out.println("Author : B.padma sai");
    System.out.println("SAP : 51834617");
    int count=0;
    int rem=0 ;
    Scanner sc=new Scanner(System.in);
    System.out.println("Enter a number: ");
    int n= sc.nextInt();
    while(n>0)
    {
      rem=n%10;
      if(rem%2!=0)
      {
        count++;
      }
      n=n/10;
    }
    System.out.println("odd Numbers: "+count);

  }
}
```

Terminal

```
Question no:3
Author : B.padma sai
SAP : 51834617
Enter a number:
13426829
odd Numbers: 3
```

day2.java

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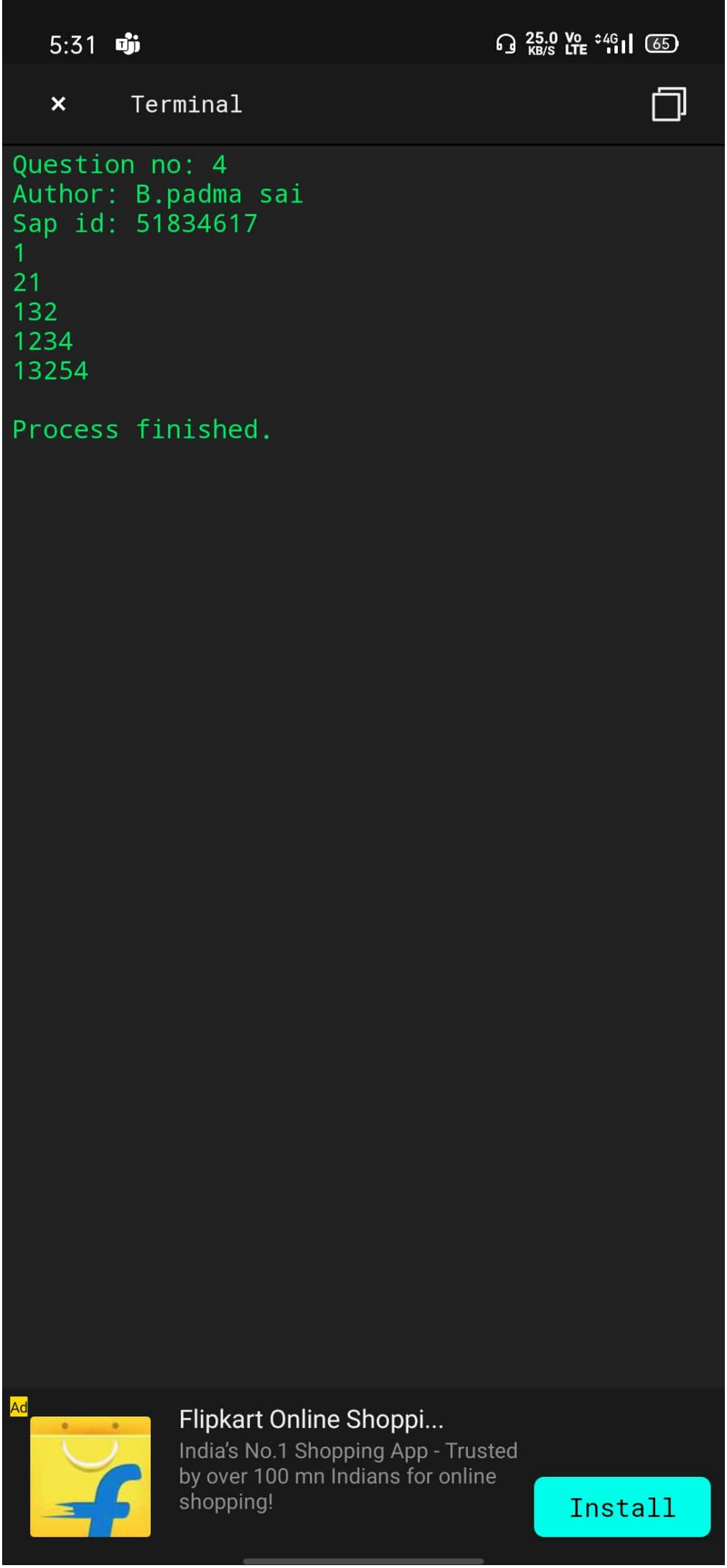
```java
import java.util.Scanner;
class Pattern
 {
   public static void main(String args[])
   {
     System.out.println("Question no: 4");
     System.out.println("Author: B.padma sai");
     System.out.println("Sap id: 51834617");
     int k=1;
     for(int i=1;i<=5;i++)
     {
       for(int j=1;j<=i;j++)
       {
         if(j==1)
         {
           k=j;
         }
         if(i!=4)
         {
           if(i%2==0)
           {
             if(j%2!=0)
             {
               k=j+1;
               System.out.print(k);
               k=k-1;
             }
             else
             {
               System.out.print(k);
             }
           }
           else
           {
             if(j%2==0)
             {
               k=j+1;
               System.out.print(k);
               k=k-1;
             }
             else
             {
               System.out.print(k);
             }
           }
         }
         else
         {
           System.out.print(j);
         }
       }
       System.out.println();
     }
   }
 }
```



day2.java

Saved

```java
class BubbleSort
{
    public static void main (String[] args)
    {
        int a[] = {16, 19, 11, 15, 10, 12, 14};
        for(int j = 0; j<a.length; j++)
        {
            boolean swapped = false;
            int i = 0;
            while(i<7-1)
            {
                if (a[i] > a[i+1])
                {
                    int temp = a[i];
                    a[i] = a[i+1];
                    a[i+1] = temp;
                    swapped = true;
                }
                i++;
            }
            if (!swapped)
                break;
        }
        System.out.println("After Bubble Sorting: ");
        for(int x : a)
        {
            System.out.print(x+" ");
        }
    }
}
```

Terminal

```
After Bubble Sorting:
10 11 12 14 15 16 19
Process finished.
```

JAVA_QUIZ_DAY_5

Attempts allowed: 1

This quiz closed on Wednesday, 22 July 2020, 4:00 PM

Time limit: 30 mins

SUMMARY OF YOUR PREVIOUS ATTEMPTS

State	Marks / 20.00	Grade / 10.00	Review
Finished Submitted Wednesday, 22 July 2020, 3:56 PM	8.50	4.25	Not permitted

YOUR FINAL GRADE FOR THIS QUIZ IS 4.25/10.00.

No more attempts are allowed

Back to the course