Get two numbers of type of integer or double from the user and perform the operation (Add,Multiply,Divide,Subtract) selected by the user using switchcase, if-else statement,break and looping switchcase using recursion
This exercise contains a class named Calculator with the following methods:
+calculate(int, int, int) : String
- Should take three integers(firstValue,secondValue,operator) as input and return a String of format "firstValue operation secondValue = result"
- Switch case should be used to provide user operations as option to select
- The number of switch cases should be similar to number of operation options provided in menu
- Operator value that is not present as a case should be dealt by default case
+getValues(Scanner) : String
- Should get three integers from user as input from console using scanner
- After receiving the operands the operation menu should be shown to the user to choose from
- All the three values should be send to calculate method and return value should be printed out to user

Ans)

```
import java.util.Scanner;

public class Calculator {
  private static Scanner scan;
  int firstNumber ;
  int secondNumber;
  int    operator;

  public void getValues(Scanner scan) {
   char repeat;
   do {
      System.out.println("Enter the first number :");
   firstNumber = scan.nextInt();
   System.out.println("Enter the second number :");
   secondNumber = scan.nextInt();
   System.out.println("Enter the number beside the operation to perform : \n"
     +"1.Add \n"
     +"2.subtract \n"
     +"3.Multiply \n"
     +"4.Divide");
   operator   = scan.nextInt();
   String result=this.calculate(firstNumber,secondNumber,operator);
   System.out.println(result);
   System.out.println("Do u want to try again(y/n)");
   repeat =scan.next().charAt(0);
   if (repeat == 'n' || repeat=='N')
    System.exit(0);
   }while (repeat == 'y' || repeat=='Y');
  }

  public static void main(String[] args) {
  scan = new Scanner(System.in);
  new Calculator().getValues(scan);
```

```
 }

 public String calculate(int firstValue, int secondValue, int operator)
{
  String output;
  int result;
  switch(operator) {
  case 1:
   result = firstValue+secondValue;
   output=firstValue+" "+"+"+" "+secondValue+" "+"="+" "+result;
   break;

     case 2 :
      result=firstValue-secondValue;
      output=firstValue+" "+"-"+" "+secondValue+" "+"="+" "+result;
      break;
  case 3 :
   result=firstValue*secondValue;
   output=firstValue+" "+"*"+" "+secondValue+" "+"="+" "+result;
     break;
     case 4 :
    if(secondValue!=0)
    {
    result=firstValue/secondValue;
    output=firstValue+" "+"/"+" "+secondValue+" "+"="+" "+result;
    }
    else {
    output="The divider (secondValue) cannot be zero";
    }
    break;
 default:
    output="Entered wrong option"+" "+Integer.toString(operator);

    }
    return output;
  }
 }
```