1. Problem statement: Create a class Student which has some private data like name, phone number, roll number, class, use getter and setters to access this private data.

2. code with comments:

```
package com.prac.go;


import java.util.Date;

import java.util.Scanner;


class Student {

   public String name, course;

   public int marks[] = new int[5];

   public int roll;

   public String adm_date;

   public static int student_count = 0;;


   public static void student_number()

   {

      System.out.println("Number of students admitted : " + student_count);

   }


   public int ret_roll() {

      return roll;

   }


   public void admission() {

      Scanner sc = new Scanner(System.in);

      Date date = new Date();

      System.out.println("STUDENT  DETAILS\n");

      System.out.println("\nEnter name: ");
```

```
    name = sc.nextLine();
    System.out.println("\nEnter course name: ");
    course = sc.nextLine();
    adm_date = date.toString();
    System.out.println("Admission Date:" + adm_date);
    student_count++;
    roll = student_count;
    System.out.println("Roll: "+ roll);

}

void get_marks() {
    Scanner sc = new Scanner(System.in);
    boolean flag;
    for (int i = 0; i < 5;) {
        flag = true;
        do{
            if(!flag){
                System.out.println("Wrong input.");
            }
            System.out.println("Enter marks in subject " + (i + 1) + ":");
            marks[i] = sc.nextInt();

            flag = false;
        }while((marks[i] > 100) || (marks[i] < 0) );

        i++;

    }
```

```
    }

    void marksheet() {
        int j;
        System.out.println("STUDENT DETAILS");
        System.out.println("NAME              : " + name);
        System.out.println("ROLL NUMBER       : " + roll);
        System.out.println("COURSE            : " + course);
        System.out.println("ADMISSION DATE    : " + adm_date);
        for (j = 0; j < 5; j++){
        System.out.println("MARKS IN SUBJECT " + (j + 1) + " : " + marks[j]);
        }
    }

    String get_name() {
        return name;
    }

    String get_admission_date() {
        return adm_date;
    }
}
```

3. Explanation of the code: Code is written for the student details and marks bu using all access specifiers and constructors to understand the concept.

4. Result flow in detail:

Code is written for the student details and marks bu using all access specifiers and constructors to understand the concept.

5. Output screenshot: