

CP Innovative Assignment

Result management & Calculator

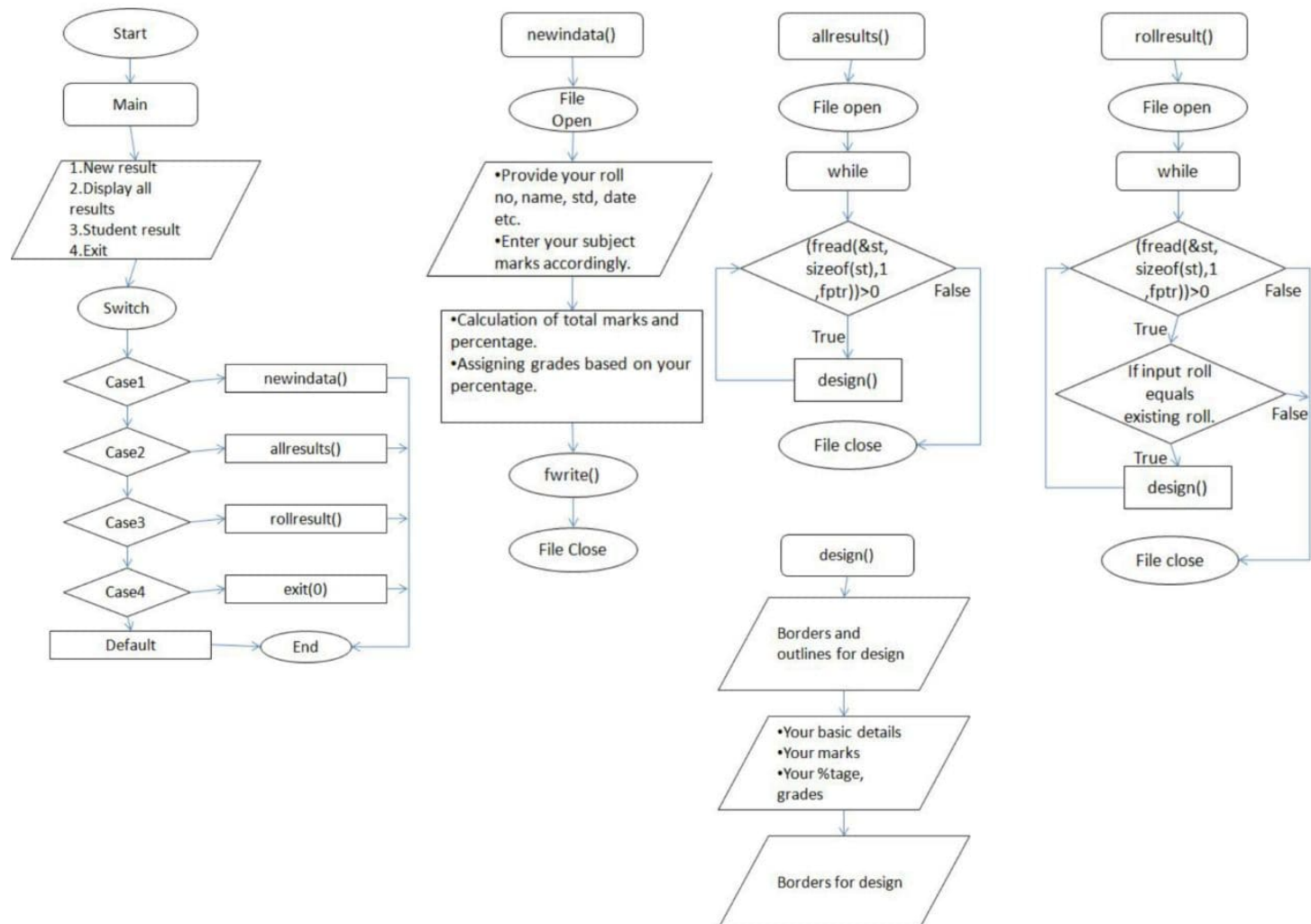
Group 26: 21ceh019 Janam Patel, 21ceh058 Arya Patel, 21ceh061 Jenil Akhyani

Date: 18/01/2022

Objective: To make a report card for students based on marks entered.

Introduction: In schools, it is very important to take exams repeatedly in order to test student's knowledge. It is also important for teacher to maintain result record of student so to know about his/her improvements. That's why we (21ceh019, 21ceh058, 21ceh061) have made result registry and calculator, which is useful for schools and students.

Flowchart:



Methodology:

- Use of input/output functions to take data from user and display it accordingly.
- Use of control statements so that user enters data of certain defined limits only.
- Use of loops to create certain designs in report card output. It aligns data in certain way which is easy to read.

- Use of switch case to call different functions when required for user.
- Use of functions in order to divide different work of the program such as input, calculations, remarks, output design etc.
- We have used different functions so that we can ask user if they want result of a specific roll number or display all the results at a time.
- Use of fflush(stdin) to clear the stream/buffer.
- Use of structures to group items of possibly different types into a single type.
- Use of file to save the input data and can be displayed anytime.
- Use of .txt file to just read, write and store data.
- Use of .csv file to see the output in excel sheet, it will be easier for teacher to gather data from excel sheet.
- Use of fwrite, fread functions to read or edit files.

Our Contributions:

21ceh019:

- I (21ceh019) have done the file handling(.txt) part, so that we can store input and output and call it whenever required.
- I have also joined various user defined functions, to get required output.
- We all three group members have integrated various functions together and decided for giving various options to user in main menu.

21ceh058:

- I (21ceh058) have done the designing part which is very important to give attractive designs to the report and assigning various tabs and new lines so that the details are perfectly aligned.
- Apart from it I have also made the flowchart of the program along with the other members.
- I suggested the goto statements in input so that we can take marks in defined limit of 0-80 / 0-20.

21ceh061:

- I (21ceh061) have done the file handling part associated with .csv file, so that we can get the output in excel sheet which will be easier for teacher to gather data.
- I took the responsibility to create a input data function, and hence made the program to take input details from user.
- I have also done the calculative part and assigning the grades.

Input Data:

1.

"C:\Users\User\Desktop\updated innovative assignment\Updated.exe"

```
MAIN MENU
1.CREATE STUDENT RECORD
2.DISPLAY ALL STUDENTS RECORDS
3.SEARCH STUDENT RECORD
4.EXIT
Please Enter Your Choice:
Enter The roll number of student: 1

Enter The Name of student: Jenil
Enter date of exam(dd-mm-yyyy): 05/04/2021
Enter Standard: 12

Enter English Marks: 76
Enter English internal marks: 19

Enter Social science marks: 73
Enter Social science internal marks: 18

Enter Science marks: 77
Enter Science internal marks: 19

Enter Maths marks: 78
Enter Maths internal marks: 20

Enter Gujarati marks: 73
Enter Gujarati internal marks: 18

Enter Sanskrit marks: 71
Enter Sanskrit internal marks: 18

Student Record Has Been Created
MAIN MENU
1.CREATE STUDENT RECORD
2.DISPLAY ALL STUDENTS RECORDS
3.SEARCH STUDENT RECORD
4.EXIT
Please Enter Your Choice:
```

2.

"C:\Users\User\Desktop\updated innovative assignment\Updated.exe"

```
Student Record Has Been Created
MAIN MENU
1.CREATE STUDENT RECORD
2.DISPLAY ALL STUDENTS RECORDS
3.SEARCH STUDENT RECORD
4.EXIT
Please Enter Your Choice:
Enter The roll number of student: 2

Enter The Name of student: Janam
Enter date of exam(dd-mm-yyyy): 28/04/2019
Enter Standard: 10

Enter English Marks: 65
Enter English internal marks: 16

Enter Social science marks: 62
Enter Social science internal marks: 15

Enter Science marks: 60
Enter Science internal marks: 18

Enter Maths marks: 68
Enter Maths internal marks: 18

Enter Gujarati marks: 71
Enter Gujarati internal marks: 19

Enter Sanskrit marks: 70
Enter Sanskrit internal marks: 18

Student Record Has Been Created
MAIN MENU
1.CREATE STUDENT RECORD
2.DISPLAY ALL STUDENTS RECORDS
3.SEARCH STUDENT RECORD
4.EXIT
Please Enter Your Choice:
```

Output Data:

"C:\Users\User\Desktop\updated innovative assignment\Updated.exe"

```
MAIN MENU
1.CREATE STUDENT RECORD
2.DISPLAY ALL STUDENTS RECORDS
3.SEARCH STUDENT RECORD
4.EXIT
Please Enter Your Choice:
```

2.(Output for display all results option)

"C:\Users\User\Desktop\updated innovative assignment\Updated.exe"

MAIN MENU

- 1.CREATE STUDENT RECORD
- 2.DISPLAY ALL STUDENTS RECORDS
- 3.SEARCH STUDENT RECORD
- 4.EXIT

Please Enter Your Choice: 2
DISPLAY ALL RECORD

REPORT CARD

Name: Jenil		Date: 05/04/2021		
Std: 12		Roll no.: 1		
Subjects	Marks	Internal	Total	Obtained
English	76	19	100	95
Social science	73	18	100	91
Science	77	19	100	96
Maths	78	20	100	98
Gujarati	73	18	100	91
Sanskrit	71	18	100	89
Total marks obt		Out of Marks	Percentage	GRADE
560		600	93	A

Made by: 21ceh019 Janam Patel
21ceh058 Arya Patel
21ceh061 Jenil Akhyani

REPORT CARD

Name: Janam		Date: 28/04/2019		
Std: 10		Roll no.: 2		
Subjects	Marks	Internal	Total	Obtained
English	65	16	100	81
Social science	62	15	100	77
Science	60	18	100	78
Maths	68	18	100	86
Gujarati	71	19	100	90
Sanskrit	70	18	100	88
Total marks obt	Out of Marks	Percentage	GRADE	
500	600	83	B	

Made by: 21ceh019 Janam Patel
21ceh058 Arya Patel
21ceh061 Jenil Akhyani


```

"C:\Users\User\Desktop\updated innovative assignment\Updated.exe"
21ceh061 Jenil Akhyani
*****
REPORT CARD
-----
Name: Arya          Date: 09/03/2020
Std: 11             Roll no.: 5
-----
Subjects | Marks | Internal | Total | Obtained |
-----|-----|-----|-----|-----|
English  | 76    | 19       | 100   | 95       |
Social science | 69    | 19       | 100   | 88       |
Science  | 67    | 18       | 100   | 85       |
Maths    | 72    | 18       | 100   | 90       |
Gujarati | 73    | 19       | 100   | 92       |
Sanskrit | 74    | 19       | 100   | 93       |
-----
Total marks obt | Out of Marks | Percentage | GRADE |
-----|-----|-----|-----|
543             | 600          | 90         | A     |
-----
Made by:          21ceh019 Janam Patel
                  21ceh058 Arya Patel
                  21ceh061 Jenil Akhyani
*****
REPORT CARD
-----
Name: Jay          Date: 12/01/2022
Std: 11             Roll no.: 9
-----
Subjects | Marks | Internal | Total | Obtained |
-----|-----|-----|-----|-----|
English  | 72    | 18       | 100   | 90       |
Social science | 64    | 15       | 100   | 79       |
Science  | 67    | 18       | 100   | 85       |
Maths    | 74    | 19       | 100   | 93       |
Gujarati | 73    | 19       | 100   | 92       |
Sanskrit | 70    | 18       | 100   | 88       |
-----
Total marks obt | Out of Marks | Percentage | GRADE |
-----|-----|-----|-----|
527             | 600          | 87         | B     |
-----
Made by:          21ceh019 Janam Patel
                  21ceh058 Arya Patel
                  21ceh061 Jenil Akhyani
*****
MAIN MENU
1.CREATE STUDENT RECORD
2.DISPLAY ALL STUDENTS RECORDS
3.SEARCH STUDENT RECORD
4.EXIT
Please Enter Your Choice:

```

4.(Output in Excel Sheet)

data.csv - Microsoft Excel

C2																		05-04-2021	
A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R		
1	R No	Name	DOE	Std	English	English_I	Social	Social_I	Science	Science_I	Maths	Maths_I	Gujarati	Gujarati_I	Sanskrit	Sanskrit_I	Grade	Percentage	
2	1	Jenil	05-04-2021	12	75	19	73	18	77	19	78	20	73	18	71	18	A	93	
3	2	Janam	28-04-2019	10	65	16	62	15	60	18	68	18	71	19	70	18	B	83	
4	5	Arya	09-03-2020	11	76	19	69	19	67	18	72	18	73	19	74	19	A	90	
5	9	Jay	12-01-2022	11	72	18	64	15	67	18	74	19	73	19	70	18	B	87	
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Thank you Ma'am.