

Introduction to Computer Systems

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University Registration System

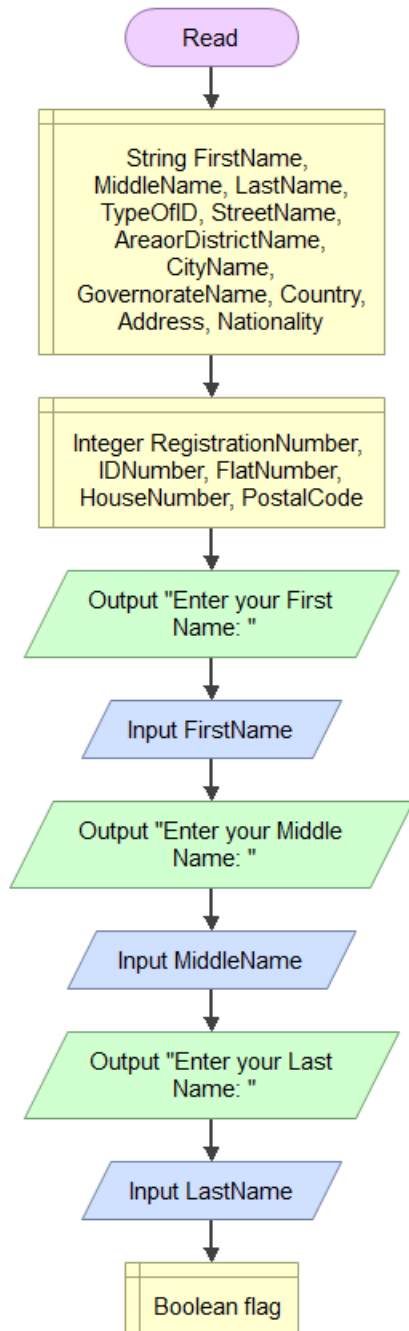
It is required to write a set of Flowcharts to perform all the functions of the credit hour registration system of an educational institution. The program should include a data structure for each one of the possible students available in the institution.

First:

We named a function called **Read** containing most of the flowcharts that the user will input then we will call it in the main function.

First of all, we will declare the variables whether they are integer or string. Then the user will be asked to input some data:

- When it comes to input his/her registration number we did a condition that the number should be ≥ 202201 and if the he inputs wrong number the program will ask him to enter the registration number one more time.
- Also, when the program will ask the user whether he wants to send an email or no if the user said yes then he will ask him whether he want to send it on the same address that the user input or want to change it
If he said no then the program will print the previous data automatically
And if he said yes then the program will ask the user to input the address one more time

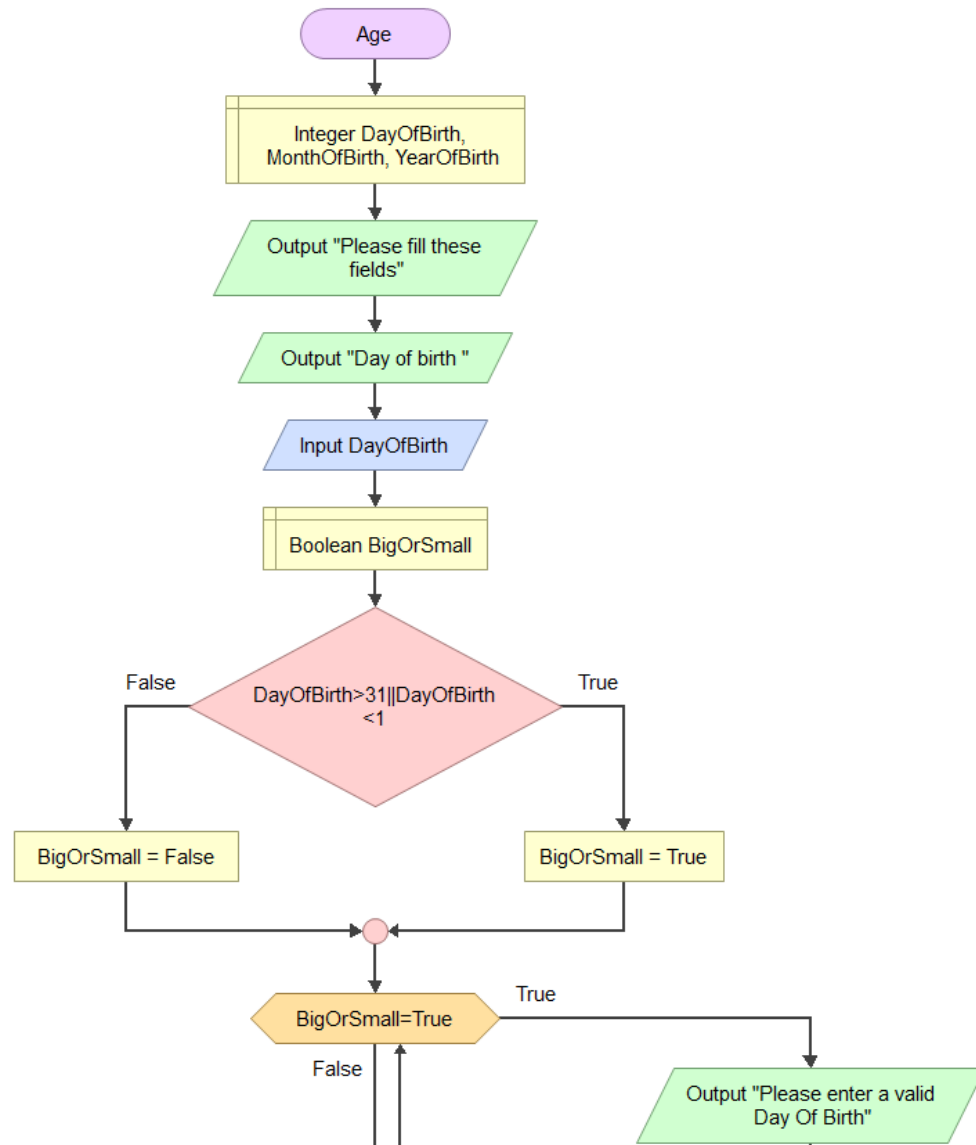


Second:

We named a function called **Age** to calculate the age of student then we will call it in the main.

First, we will declare the variables whether they are integer or string. Then the user will be asked to input data of his/her birth.

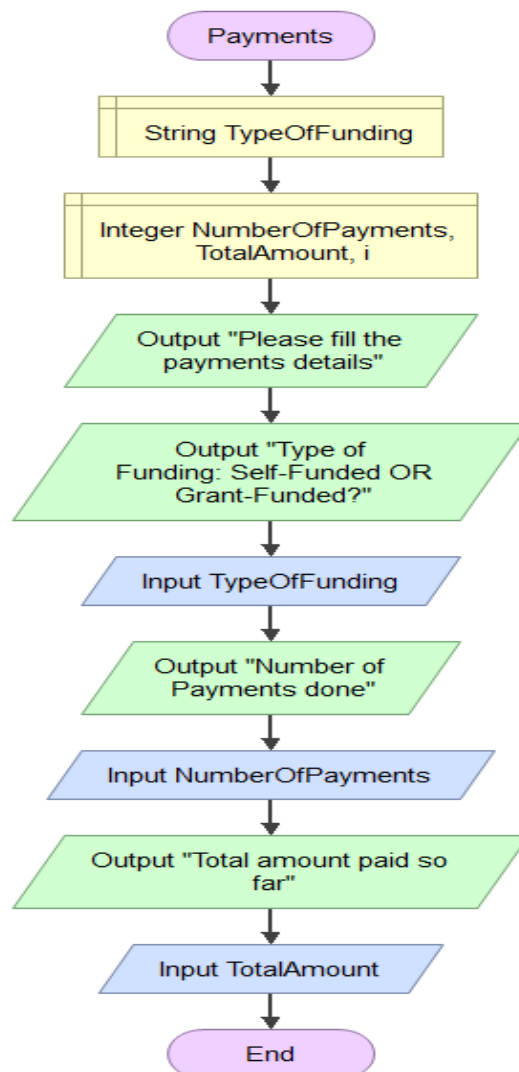
- The user will be asked to input the day of his/her birth. So, we made a condition that he should enter number between 1 and 31 and if he/she entered a wrong number the program will ask the user to input invalid day.
- Then the user will be asked to input the month of his/her birth. So, we made a condition that he should enter number between 1 and 12 and if he/she entered a wrong number the program will ask the user to input invalid month.
- Then the user will be asked to input the year of his/her birth. So, we made a condition that he should enter number between 1980 and 2022 and if he/she entered a wrong number the program will ask the user to input invalid year.
- Then the program will calculate the age of the student automatically by (2022-YearOfBirth)
YearOfBirth = the year that the user will input.



Third:

We named a function called **Payments** to calculate to the payments that the user paid then we will call it in the main.

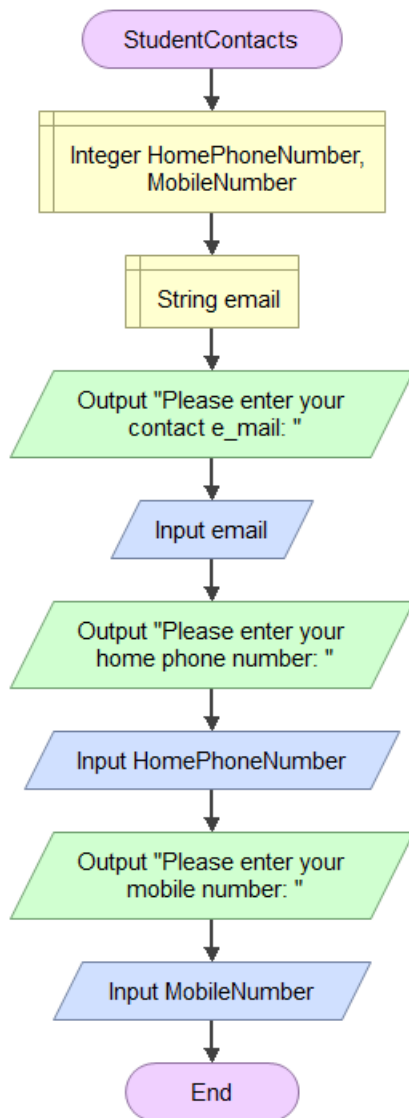
First, we will declare the variables whether they are integer or string. Then the user will be asked to input data of his/her process of payments.



Fourth:

We named a function called **StudentContacts** to take the information contacts from student then we will call it in the main.

First, we will declare the variables whether they are integer or string. Then the user will be asked to input data of his/her contacts&email.



Fifth:

We named a function called **CreditHours** to calculate the hours of the student then we will call it in the main.

First, we will declare the variables whether they are integer or string. Then the user will be asked to input data of his/her credit hours.

- The user will enter the maximum hours that he should study throughout the years of his/her study.
- Then he will input how many hours did he/she finished.
- Then he will input the current hours that he/she is studying.
- Then the program will automatically calculate the remaining hours of the user.

