Program in C language

- **In order to develop a program,a special procedure to be followed which is called Program development life cycle(PDLC).**

Program definition and analysis

- *The first phase is identify and define problem.*

- *For this ,using the basic steps ,input, processing and output*

- *if the problem is solved ,at the end agreement is done between user and the programmer.*

- *Before tackling the problem logically, the nature of the problem must be fully understood by the programmers.*
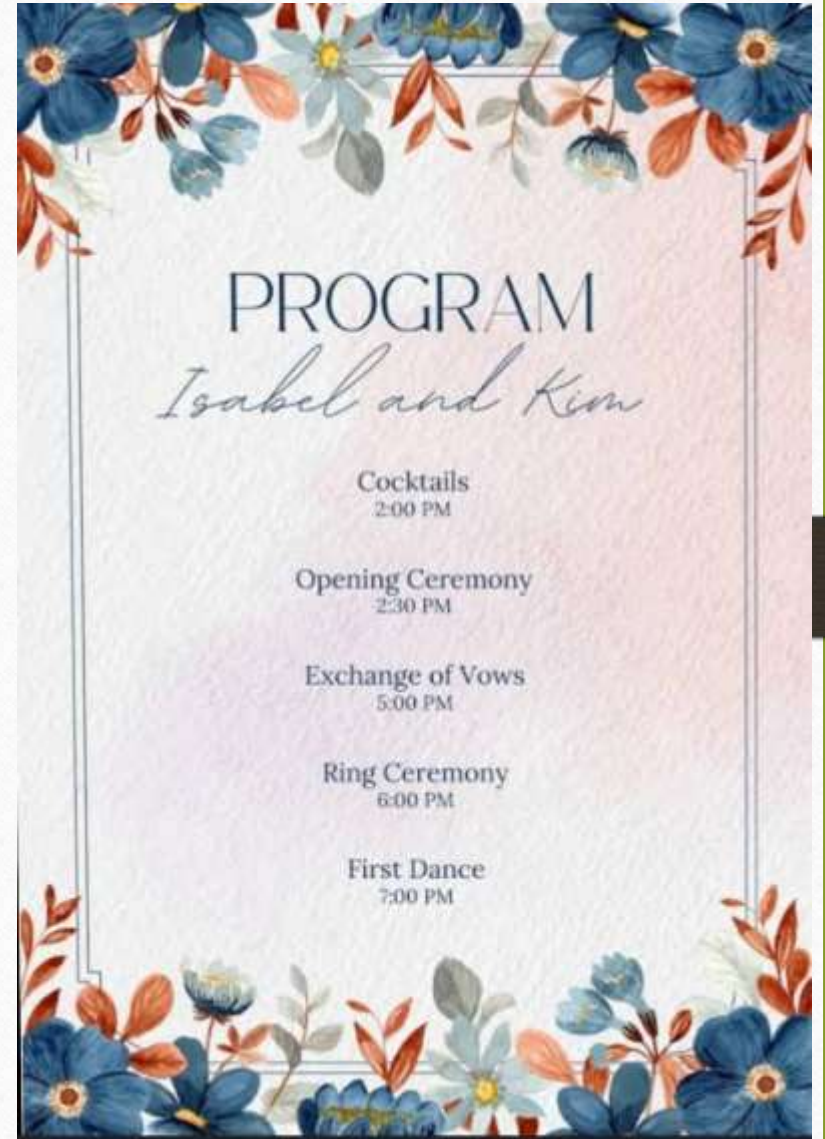
Program design

Programmer must have proper understanding of the behavior of the problem.

Behavior can be describe in term of necessary inputs and required output.

Program design in different techniques like algorithm or flowchart.

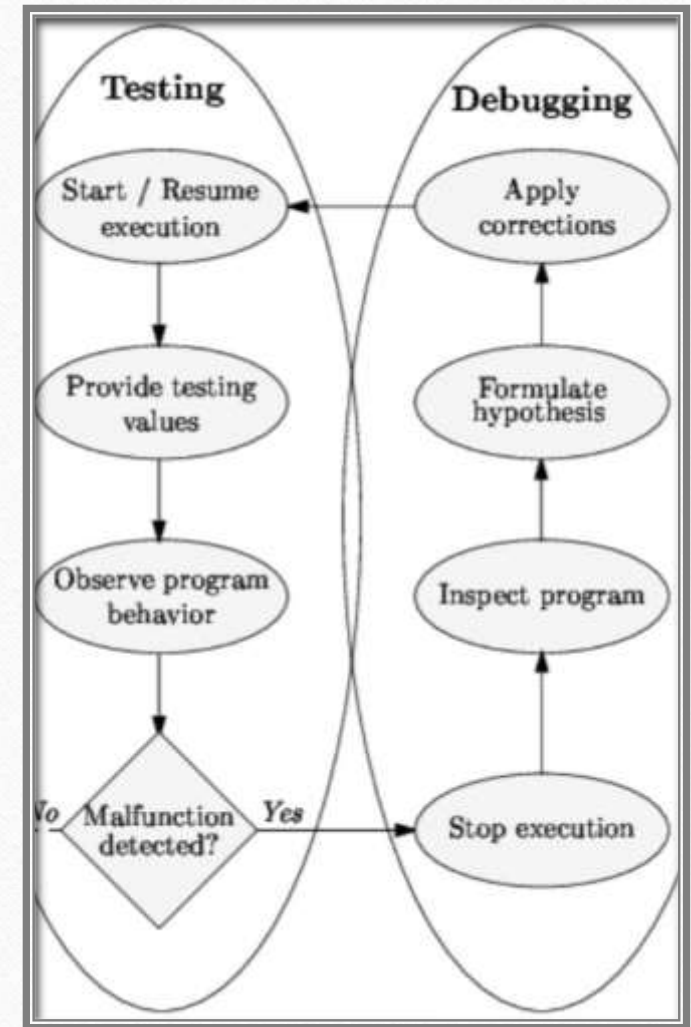Programmer design a program which meets the best requirements of the user.

Coding

• *The programmer translates the step of algorithm or flowchart in a computer program using a language such as C and is called as coding.*

Debugging and testing

• *A bug is an error in a computer program.*

• *The process of eliminating the errors in the program is called as Debugging*

• *Detection can be accomplished by testing a new program.*

• *Different errors can be eliminated by using various methods.*

• *Testing is also done to make sure that the program is correct.*

Maintenance

- *program development program which is altogether ready,is installed at the sight of user.*

- *User may have some error and the programmer has to maintain all these errors and do all necessary changes.*

- *Maintenance of the program is compulsory, so that there must not be any problem in the output of program.*

Define acceptable limits

Identify critical equipment

Install IoT devices

Connect devices to CMMS