

Unit 1 Lesson-1 [Features of C & History]

• Why C language.

- Easy to learn.
- Structured language.
- It produces efficient programs.
- It can handle low-level activities.
- It can be compiled on a variety of computer platform.
- It built library functions.
- General purpose language.

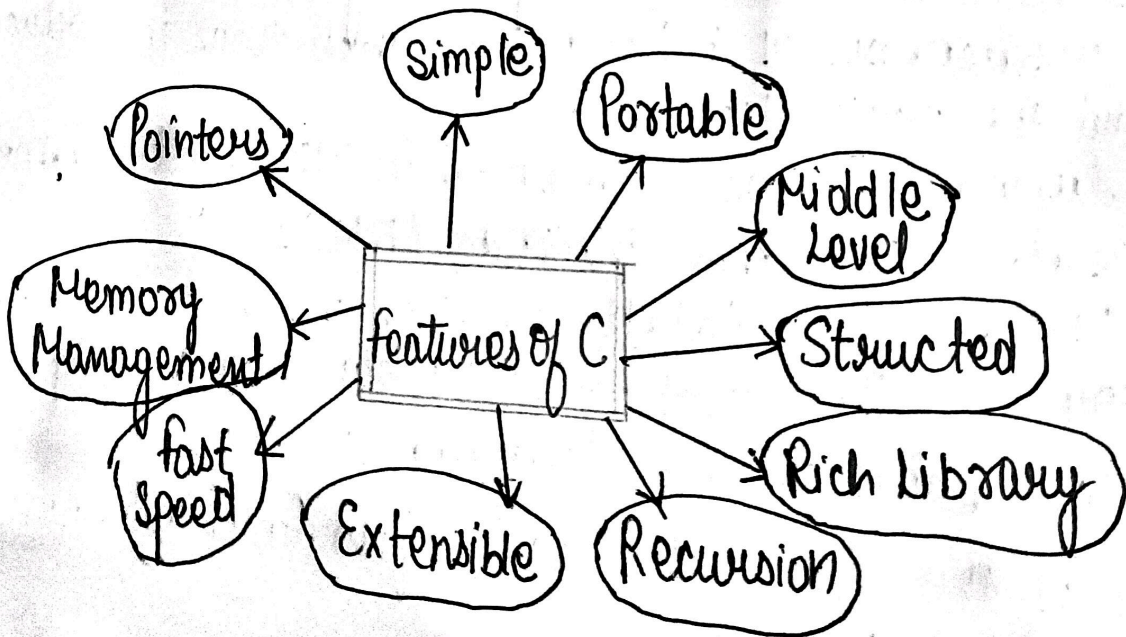
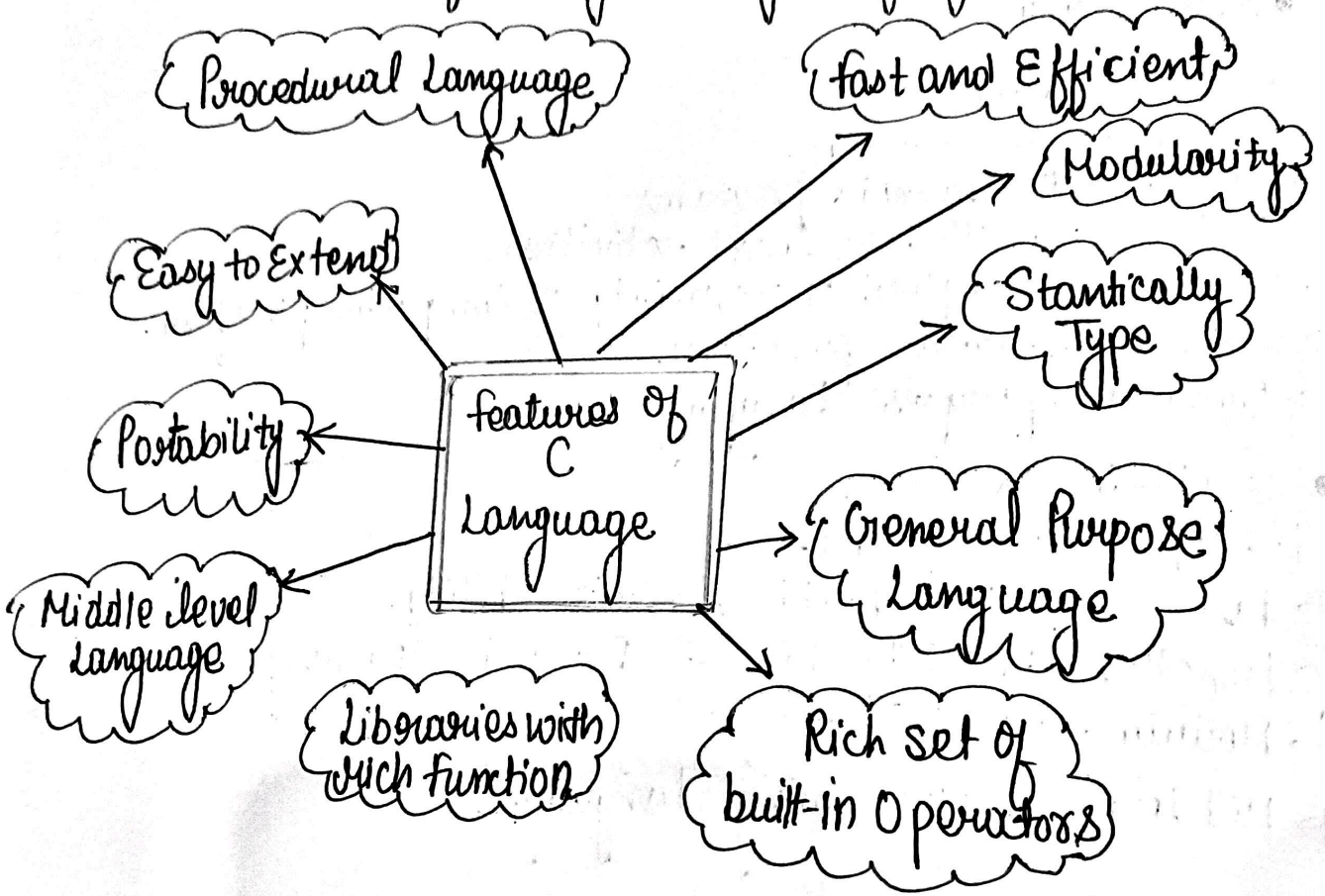
• C CHARACTERISTICS.

1. Simple and efficient.
 - a → fast
 - b → Portability
 - c → Extensibility.
 - d → function-Rich libraries
 - e → Dynamic Memory Management
 - f → Modularity with Structured Language.
 - g → Mid Level Programming language.

• fact about C.

- C was invented to write an operating system called UNIX
- C is a Successor of B Language which was introduced around the early 1970s.
- The language was formalized in 1988 by the American National Standard Institute (ANSI)
- The UNIX OS was totally written in C.
- Today C is the most ^{Popular} widely used and ^{population} System Programming language.
- Most of the ^{State of the art} software have been implemented ~~intemented~~ using C.

Features of C Programming Language



C was invented by Dennis Ritchie
language

Applications C Programming

- a) Operating System
- b) Language Compilers
- c) Assemblers
- d) Text Editors
- e) Print Spoolers
- f) Network Drivers.
- g) Modern Programs
- h) Databases.
- i) Language interpreters
- j) Utilities.

- Difference between Procedural Programming / Object oriented Programming.

Procedural Programming

- a) More stress is on action on doing things.
- b) It does not have features e.g → C, Pascal

Object oriented programming.

- a) More stress is on data.

- b) It have all these features e.g → C++, Java, VB (Visual Basic)

Lesson \rightarrow 2 (Sample programs)

Q-1 Write a program in C. To enter in principle rate and time & Calculate simple interest.

Ans \rightarrow 11 Program to find the Simple interest.

```
void main ()
```

```
{
```

```
float p, r, t, si;
```

```
printf ("enter principal rate and time.");
```

```
scanf ("%f %f %f", &p, &r, &t);
```

```
si = p * r * t / 1000;
```

```
printf ("Simple interest = %f", si)
```

```
}
```

Q-2