

#include <stdio.h>

preprocessor directive

Preprocessor is a part of the compiler

which take care of whatever is written above the main.

Header files are required in C/C++ because certain functions & stream objects are defined in these header file. for example -> scanf() & printf() are defined in stdio.h header file.

void main() is a function which do not return value. The program execution starts from main. No program will work without main.

void main() { } -> Parenthesis

{ } -> Square brackets

{ } -> curly braces

printf() is used to display the output on the screen.

Variable name a, b, c

int a, b, c [15, 12]

scanf() is used to input the values from keyboard

printf("Enter 2 numbers")



multiline comment  
 // Program to enter  
 // two numbers and  
 // find their sum  
 // and display it

Comment in C:-  
 are used to increase the readability  
 & understanding of the program.

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## C. CHARACTERISTICS

- ① Single line: //
- ② Multiline comment: /\* program to enter two numbers \*/

- d-1
- Ans →
1. Simple and efficient.
    - fast
    - Portability
    - Extensibility
    - Function-Rich-Libraries
    - Dynamic Memory Management
    - Modularity with structured language
    - Mid-Level programming language.

→ facts 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 widely used and popular system programming language.

→ Most of the state the art software have

→ Application of C Programming been implemented

### Application.

→ operating system → language complex

→ Assembles.

// → Program  
 ↓  
 Comments

1. Single line = //

2. Multi line = /\* \* \*/



```

scanf("%d", &P);
scanf("%d", &R);
scanf("%d", &T);
scanf("%d", &A);

```

P → Principle  
 R → Rate  
 T → time  
 A → amount

```

S = A * T * R / 100;
printf("Sum of 2 numbers is %d", S);

```

11:20

write a program in C to enter in principle, rate & time to calculate simple interest.

```

#include <stdio.h>
void main()
{
  float P, R, T, SI, A;
  printf("Enter in decimal");
}

```

```

printf("Enter Principle, rate time"),
scanf("%d", &P),
scanf("%d", &R),
scanf("%d", &T);
SI = P * R * T / 100;

```

```

printf("Simple interest");
printf("%d", SI);

```

