GENERAL – 0X00. C PROGRAMMING LANGUAGE

1. Why C programming is awesome: C programming is awesome because it is a powerful and versatile programming language that can be used to develop a wide range of software applications, from operating systems to embedded systems, from game development to scientific computing.

2. Who invented C: C programming language was invented by Dennis Ritchie at Bell Labs in the early 1970s.

3. Who are Dennis Ritchie, Brian Kernighan and Linus Torvalds: Dennis Ritchie is the inventor of C programming language, Brian Kernighan is a computer scientist who co-authored the book "The C Programming Language" with Ritchie, and Linus Torvalds is the creator of the Linux operating system which is written in C.

4. What happens when you type gcc main.c: When you type "gcc main.c" in the command line, the GCC compiler compiles the source code in the main.c file and generates an executable file that can be run on the computer.

5. What is an entry point: An entry point is the first executable code that is run when a program is started. In C, the entry point is the "main" function.

6. What is main: "main" is a special function in C programming language that serves as the entry point for a C program. It is where the program execution begins.

7. How to print text using printf, puts and putchar: printf is a function in C that is used to print formatted text to the console. puts is another function that is used to print a string to the console, and putchar is used to print a single character to the console.

8. How to get the size of a specific type using the unary operator sizeof: The "sizeof" operator is used to determine the size, in bytes, of a specific data type in C.

9. How to compile using gcc: To compile a C program using gcc, you can run the command "gcc main.c -o program" in the command line, where "main.c" is the name of the source code file and "program" is the name of the executable file that will be generated.

10. What is the default program name when compiling with gcc: The default program name when compiling with gcc is "a.out".

11. What is the official C coding style and how to check your code with betty-style: The official C coding style is a set of guidelines for writing C code that is easy to read and maintain. Betty-style is a linter tool that can be used to check your C code for compliance with the official C coding style.

12. How to find the right header to include in your source code when using a standard library function: When using a standard library function in C, you need to include the appropriate

header file that contains the function declaration. You can find the right header to include in the documentation for the function.

13. How does the main function influence the return value of the program: The return value of the "main" function in C influences the exit status of the program. A return value of 0 indicates that the program executed successfully, while a non-zero return value indicates that an error occurred during program execution.