

Interview Questions:

- 1. What are the differences between references and pointers?**
- 2. What is the difference between array and pointer?**
- 3. What is a pointer ? when Should we use it ?**
- 4. Explain the use of pointers?**
- 5. Explain what happens when a pointer is deleted twice ?**
- 6. What is NULL pointer?**
- 7. What is NULL pointer and void pointer and what is their use?**
- 8. What is Dangling pointer?**
- 9. What is a smart pointer?**
- 10. Difference between an inspector and a mutator ?**
- 11. Pointer to constant vs. pointer constant ?**
- 12. What are function pointers?**
- 13. What is pointer to member?**
- 14. What is const pointer and const reference?**
- 15. What is memory leak? Why it should be avoided?**
- 16. What are local static variables? What is their use?**
- 17. What is difference between i++ and ++i?**
- 18. What is volatile keyword?**
- 19. Can a variable be both const and volatile?**

- 20. Explain what is the use of void main () in C++ language?**
- 21. What is the difference between #import and #include in C++?**
- 22. What is the use of dot in C++?**
- 23. How is new() different from malloc()?**
- 24. Is it possible to have a recursive inline function in C++?**
- 25. What is a responder chain?**
- 26. What do you mean by delegate? Can a user retain delegates?**
- 27. What is Dynamic and Static Typing?**
- 28. What is a static member?**
- 29. What are virtual functions – Write an example?**
- 30. What are VTABLE and VPTR?**
- 31. What do you mean by function and operator overloading in C++?**
- 32. Differentiate between a constructor and a destructor in C++.**
- 33. Explain the properties and principles of OOP.**
- 34. Explain what is COPY CONSTRUCTOR and what is it used for?**
- 35. C++ support multiple inheritance. What is the “diamond problem” that can occur with multiple inheritance? Give an example.**

Program:

1. Write a Program to reverse a string without using String inbuilt function.
2. Write a Program to swap two numbers using the third variable.
3. Write a Program to swap two numbers without using the third variable.
4. Write a Program to count the number of words in a string using HashMap.
5. Write a Program to iterate HashMap using While and advance for loop.
6. Write a Program to find whether a number is prime or not.