Perl Interview Questions and Answers (1–50)

1. What is Perl?

Answer: Perl (Practical Extraction and Report Language) is a high-level, general-purpose programming language known for its text processing capabilities.

2. What are the key features of Perl?

Answer: Text manipulation, regular expressions, portability, dynamic typing, CPAN library support.

3. What are scalars in Perl?

Answer: Scalars are single data items. Prefix: \$. Example: \$name = "Harsh";

4. What are arrays in Perl?

Answer: Ordered lists of scalars. Prefix: @. Example: @colors = ("red", "blue");

5. What are hashes in Perl?

Answer: Unordered key-value pairs. Prefix: %. Example: %ages = ("John" => 25);

6. How do you declare variables in Perl?

Answer: Using my keyword: my \$name = "Harsh";

7. What is the use of chomp ()?

Answer: Removes the newline character from the end of strings.

8. What is the difference between chop() and chomp()?

Answer:

- chop () removes the last character
- chomp () removes the newline character only

9. What is a subroutine in Perl?

Answer: A reusable block of code defined using sub keyword.

10. How do you pass parameters to a subroutine?

Answer: Using the special array @ . Example: \$ [0], \$ [1]

11. What are context types in Perl?

Answer:

- Scalar context returns a single value
- **List context** returns a list of values

12. What is a regular expression in Perl?

Answer: A pattern used to match strings. Syntax: /pattern/

13. What is the use of =~ operator?

Answer: Tests if a string matches a regex pattern.

14. What is the use of !~ operator?

Answer: Tests if a string does **not** match a regex pattern.

15. How do you open a file in Perl?

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Answer: open(my $fh, "<", "file.txt") or die "Can't open file";
```

16. How do you read a file line by line?

Answer:

```
while (my $line = <$fh>) {
    print $line;
}
```

17. How do you write to a file in Perl?

Answer:

```
open(my $fh, ">", "output.txt");
print $fh "Hello";
```

18. What is CPAN?

Answer: Comprehensive Perl Archive Network – a large collection of Perl modules.

19. What is undef in Perl?

Answer: Indicates an undefined value.

20. What are Perl data types?

Answer: Scalar, Array, Hash, Reference.

21. What is a reference in Perl?

Answer: A scalar that holds the location of another variable.

22. How do you create a reference?

Answer: \$ref = \@array; or \$ref = \%hash;

23. How do you dereference a reference?

Answer: Using @{\$ref} or %{\$ref} depending on the type.

24. What are special variables in Perl?

Answer: Predefined variables like \$_, \$!, \$@, \$., etc.

25. What is \$ in Perl?

Answer: The default variable for loops and regex operations.

26. What is the difference between use and require?

Answer:

- use is evaluated at compile time
- require is evaluated at runtime

27. What is eval in Perl?

Answer: Used to execute Perl code stored in a string or to catch errors.

28. What is die in Perl?

Answer: Prints a message and exits the program if a condition fails.

29. What is a module in Perl?

Answer: A reusable package of Perl code with .pm extension.

30. How do you include a module in Perl?

Answer: Using use ModuleName;

31. What is object-oriented Perl?

Answer: Perl supports OO with bless, package, and methods.

32. What is the bless function?

Answer: Associates an object with a class.

33. What is inheritance in Perl?

Answer: Achieved using @ISA array to define parent classes.

34. What is AUTOLOAD in Perl?

Answer: A method called when an undefined subroutine is invoked.

35. What is tie in Perl?

Answer: Binds a variable to a package class that defines customized behavior.

36. How do you handle errors in Perl?

Answer: Using eval { ... } and checking \$@ for error messages.

37. What is strict mode in Perl?

Answer: Forces declaration of variables using use strict;

38. What is warnings pragma in Perl?

Answer: Helps catch possible issues with use warnings;

39. What is the difference between print and say?

Answer: say adds a newline automatically (Perl 5.10+)

40. How do you sort an array in Perl?

Answer: @sorted = sort @array;

41. How do you reverse an array?

Answer: @rev = reverse @array;

42. How do you find the length of a string?

Answer: length(\$str)

43. How do you split a string into an array?

Answer: @arr = split(/,/, \$string);

44. How do you join an array into a string?

Answer: join(",", @array);

45. What is the difference between my, our, and local?

Answer:

• my: lexical scope

• our: global variable within a package

• local: temporarily changes global value

46. What are Perl one-liners?

Answer: Short programs executed from the command line using -e.

47. What is the map function?

Answer: Applies a block of code to each element of a list and returns the modified list.

48. What is the grep function?

Answer: Filters elements of a list based on a condition.

49. What is \$_ used for in map and grep?

Answer: It holds the current element being processed.

50. How do you comment in Perl?

Answer: Using # for single-line comments.