

2012

Week 42

Jomph

October

17 Wednesday

2012-75

Mongodb Interview Question

- 8: ① What is Mongodb.
- 9: ② What are Indexes in Mongodb.
- 10: ③ How many Index does Mongodb Create by default for a new collection.
- 11: ④ What is Namespace in Mongodb?
- 12: ⑤ What is Replication in Mongodb.
- 13: ⑥ How can you achieve primary-key-foreign key relationship in Mongodb.
- 14: ⑦ When should be embed one document within another in Mongodb.
- 15: ⑧ Explain the Categorization of Mongodb documents.
- 16: ⑨ Is there 'upsert' option in the Mongodb insert command.
- 17: ⑩ What are advantages of Mongodb.
- 18: ⑪ What is document in Mongodb.
add data in Mongodb.
- 19: update ..
- 20: ⑫ What are data types in Mongodb.

October						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Priorities:	To Call:
add data in Mongodb.	
update ..	
one data types in Mongodb.	



2012

October

Week 42

18 Thursday

292-74

- ⑧ When to use MongoDB.
- ⑨ How is query done in MongoDB.
- ⑩ How do you delete a document?
- ⑪ Explain Reducer in MongoDB.
- ⑫ Explain the process of sharding.
- ⑬ What do you mean by transaction.

2:

3:

4:

5:

6:

7:

8:

To Call:	Priorities:

November						
W	K	M	T	W	T	F
				1	2	3
44						4
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	



2012

Week 42

October

19 Friday

Express Interview Question

- ① What is Expressjs.
- ② What are some distinctive features of Express.
- ③ Is Expressjs front end or back end framework?
- ④ Why do we use Express.
- ⑤ diff b/w express or node.
- ⑥ What do you mean by Scaffolding in express.js
- ⑦ Do other frameworks also support scaffolding.
- ⑧ Which are the developments available for express.js route handler function.
- ⑨ diff b/w Express and Django.
- ⑩ How can you allow cors in Express.
- ⑪ Write the code to start serving static file in Expressjs.

October						
S	M	T	W	Th	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

Priorities:

To Call:

Is middleware in Express.js? What are different types of middleware.

Which template engines does express support.



2012

October

Week 42

20 Saturday

294-72

- (1) Database migration in express
(2) What is Routing and how Route works in express

10:

11:

12:

1:

2:

3:

4:

Durga Puja

21 Sunday

295-71

To Call:	Priorities:

Priorities:

November						
W	K	M	T	W	T	F
44				1	2	3
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	



2012

Week 43

22 Monday

296-70

October

Durga Puja

★ Union :- A Union is a union that allows different types of data to be stored in the same memory location.

• It provides a way to define a variable that may have different data types, but at any given time only one member of the Union can hold a value.

★ Types of Pointer

• Null • Void • Wild • Dangling

• Null :- If you assign a NULL value to a pointer during its declaration.

• Void :- When a pointer declared with a void keyword, then it is called a void pointer.

• Wild Pointer :- A wild pointer is only declared but not assigned an address of any variable.

• Dangling :- Suppose there is a pointer p pointing at a variable of memory 1004. If the memory 1004 is deallocated, then p is called dangling pointer.

October						
WK	M	T	W	T	F	S
40	1	2	3	4	5	6
41	7	8	9	10	11	12
42	13	14	15	16	17	18
43	19	20	21	22	23	24
44	25	26	27	28	29	31

Practices: deallocated this memory then To Call Then p is called dangling pointer



2012

October

Week 43

27 Saturday

PLACEMENT

8:

9: ① Tell me something about yourself.

10:

oops Question

11: ① oops ② class ③ object ④ inheritance

12: ⑤ Types of Inheritance ⑥ Encapsulation

13: ⑦ Abstraction * ⑧ Polymorphism ⑨ Types of Polymorphism

14:

⑩ Constructors & Destructors ⑪ This pointer

15: ⑫ friend function ⑬ Virtual function

28 Sunday

302-64

⑭ Pure Virtual Function ⑮ Abstract

class ⑯ Access Specifiers

* ⑰ Operator Overloading

Overall: Advantage & disadvantage of OOP

⑱ Diff b/w Object & Class

⑲ Diff b/w compiler & interpreter

⑳ Malloc & calloc

W	M	T	W	T	F	S	S
44			1	2	3	4	
45	5	6	7	8	9	10	11
46	12	13	14	15	16	17	18
47	19	20	21	22	23	24	25
	26	27	28	29	30		



2012

Week 44

October

29 Monday

303-63

- (27) diff b/w B&P & C&P
(28) diff v/s class & structure
(29) diff b/w oops & procedure
(30) diff b/w C & C++
(31) diff b/w C++ & Java
Developer of (C, C++, Java, Python)
(32) diff b/w Array & ArrayList
(33) diff b/w ArrayList & LinkedList
(34) Linear Search (35) Binary Search
(36) Bubble sort (37) Insertion sort
(38) Selection sort (39) Merge sort
(40) Quick sort (41) Heap sort

October						
S	M	T	W	Th	F	S
30	1	2	3	4	5	6
41	8	9	10	11	12	13
42	15	16	17	18	19	20
43	22	23	24	25	26	27
44	29	30	31			

Priorities:

To Call:

- Array • String • Structure
- Union • Types of pointer

• Stack • Queue • Graph/Sort



2012

October

Week 44

30 Tuesday

304-62

8: • Tree • Binary tree • Heap •

9: HashTable / Map • Graph •

10: NOTE Lambda Expression only used with the functional interface.

11: Q) Why should we hire you?

12: I am a fresher but I have required qualification that you are looking for. I can't ask you to hire me, but I can assure you that I will prove my worth and deliver quality work if you hire me.

13: Q) In what position do you see yourself 5 years from now?

14: As a fresher, it is very difficult to say but still, I want to be an successful position, with lots of experience and give the proud moment for my company.

15: Q) What would be a big challenge for you if the company hire you.

16: Being a fresher, every task is a new challenge for me. There is no specification in this field. I have gained some knowledge through my education but I am not applying it anywhere professionally.

17: I think there challenges will be helpful to become a successful employee.

To Call: Priorities:

November

SUN	MON	TUE	WED	THU	FRI	SAT
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					



2012

Week 44

31 Wednesday

305-61

Manish
19/10/2012

October

20

1

①

9:

10:

11:

12:

1:

② A

3:

4:

6:

7:

8:

To

- ① What will you do if you are not selected for this job?
→ Since this is my first interview, I will be a little displeased. I do not like to carry this emotion for a long time. I will come & learn from my mistakes & prepare for other interviews with confidence.
- ② Are you willing to relocate?
Yes, I am ready to relocate if my services are required but provided the salary feels good to survive.
- ③ What are your short term goals & long term goals.
My short term goal is to find job as a developer in reputed company & apply my learning to excel at that position. My long term goal is to see myself in a leadership position & to lead a developed productive and successful team.

October						
WK	M	T	W	T	F	S
40	1	2	3	4	5	6
41	7	8	9	10	11	12
42	13	14	15	16	17	18
43	19	20	21	22	23	24
44	25	26	27	28	29	30
						31

Priorities:

To Call:



2012

Week 44

1 Thursday

306-60

Jamal
19/11/2012

November

① Why are you choose college in West Bengal
why my sister?

Actually I was allotted this college after
clearing my entrance examination & the college
was only 12 km away from my hometown.
And that was an opportunity to experience
new environment, culture and tradition so
I took this opportunity & pursuing my
engineering from this institute.

② When you are hired, then how long would
you expect to work for us?

⇒ I will do my best for the growth of
your company as long as I have the career
growth, job satisfaction & healthy environment.
Then I don't need to change my company.

6: What are your achievements in life?

7: My biggest accomplishment is overcoming my
fear of failure. It gives me a completed
sense of living & makes me more confident.

To Call:

Priorities:

November						
WK	M	T	W	T	F	S
44				1	2	3
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	



2012

Week 44

November

2 Friday

307-59

8: Would you lie for the company

9: It depends on the situation if my lie
create positive impact on the company

10: If it was useful for many people I
than I will lie.

11:

How do you get to know about our company

12: I get to know about your company from
several online website

1: What does success looks like

3: If I put smile on someone face and
make him happy. It is success for me

4: Would you like to work overtime on odd hrs?

5: I know that in the company being asked
to work for an extended no of hrs long
with a good reason so I am ok with
7: it if of extra effort means I'm doing
something for the company. I will be happy to
do it

November						
W	K	M	T	W	T	F
44				1	2	3
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	

Priorities:

To Call:



2012

November

Week 44

3 Saturday

308-58

8. What is more important to you the money or the work?

9.

1. I would say that work is more important
10. If we work & achieve company goals then
obviously money would follow. I believe
11. work to be prior to

12.

Money is always important but the
work is most important for me

1. What are your salary expectation?

2. Actually my man, As a fresher, salary is
not an issue for me. Learning & gaining
3. experience is my major priority. As your
company is one of the most reputed company
4. just accept the salary offered by you,
is the best in the industry.

4 Sunday What are your strengths?

I am very passionate about learning &
a very quick learner. The skill I think that
distinguish myself from other is my public
speaking ability, can get along with new
people easily & can effectively communicate
my idea.

To Call:

Priorities:

December						
Wk	M	T	W	T	F	S
48					1	2
49	3	4	5	6	7	8
50	10	11	12	13	14	15
51	17	18	19	20	21	22
52	24	25	26	27	28	29
	31					



2012

Week 45

November

5 Monday

310-56

- 8: What are you interested in this job?
9: Why do you want to work with us?
9: Why do you want to apply for this role

10: As a fresher I always wanted to work with a company where I can apply my learning & be responsible for my work. I see this role as an good opportunity to start my career & utililize my skills! I am here with this opportunity. I can achieve more & help in my carrier & can also help in company development.

3: How do you handle stress, pressure & anxiety?

4:
Under pressure, I usually try to handle the situation as easily as possible.
I often song & meditate & deal with stress & pressure

7:

8:

November						
WK	M	T	W	T	F	S
44				1	2	3
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	

Priorities:

To Call:



2012

November

Week 45

6 Tuesday

311-55

8: Array & array list

array 9: If is faster as above we see it of

fixed size

11:

o primitive data type can be stored

12: directly unlike Objects

1: Single or multi dimensional.

ArrayList

=> It can be any single dimension

3:

• dynamic and can be + or - in size

4: When required.

5: It is relatively slower bcoz of its dynamic nature

6:

• primitive data type are not directly added unlike arrays, they are added indirectly with the help of wrapper

8:

To Call:

Priorities:

December						
W	K	M	T	W	T	F
48					1	2
49	3	4	5	6	7	8
50	10	11	12	13	14	15
51	17	18	19	20	21	22
52	24	25	26	27	28	29
	1	31				



2012

Week 46

12 Monday

317-49

November

Veteran's Day, USA

- ⑥ Higher order function ~~function~~
- ⑦ Map, filter & reduce
- ⑧ What is Router in React
- ⑨ What is diff server-side rendering, and client side rendering.
- ⑩ How to optimize performance of the react application
- ⑪ What is flowback & what is it use
- ⑫ Diff virtual dom & real dom.

4:

5: AJGX:- by the help of JS we send a Network req from background.

6:

7: → without loading or refreshing the page

8:

* Arrow fun don't have this value they inherit it from the parent scope

November						
WK	M	T	W	T	F	S
44						
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	

Priorities: To Call
expresion have their own this
to in this case the value for
parent scope is being used.

* Arrow fun has implicit return. we don't have to use the return keyword



2012

Week 46

Novembre

13 Tuesday

318-48

Diwali (Lakshmi Puja)

8: ~~Closure :-~~

★ Babel :- babel is a toolchain that is mainly used to convert es6+ code into a backwards compatible version of js in a current and older browsers environments. Transforms syntax. So, code may

★ Webpack :-

- 1: \Rightarrow bundle all the files, image & assets into one specific file
- 2: \Rightarrow static module bundler for js application
- 3: \Rightarrow It takes all the code from your app & makes it usable in web browser
- 4: \Rightarrow Module are reusable chunks of code build from your app's module, images, and the assets which they are passed to be easily used in your website.
- 5: \Rightarrow Module are reusable chunks of code build from your app's module, images, and the assets which they are passed to be easily used in your website.
- 6: \Rightarrow It takes all the code from your app & makes it usable in web browser
- 7: \Rightarrow Module are reusable chunks of code build from your app's module, images, and the assets which they are passed to be easily used in your website.

8: ~~use because most browser don't support multiple page~~

To Call:	Priorities:
D bundle or optimize	

December								
W	K	M	T	W	T	F	S	S
48						1	2	
49	3	4	5	6	7	8	9	
50	10	11	12	13	14	15	16	
51	17	18	19	20	21	22	23	
52	24	25	26	27	28	29	30	
	1	31						



2012

Week 46

14 Wednesday

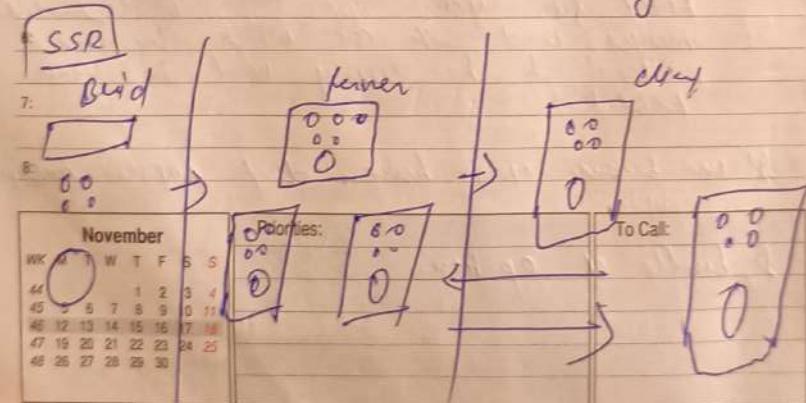
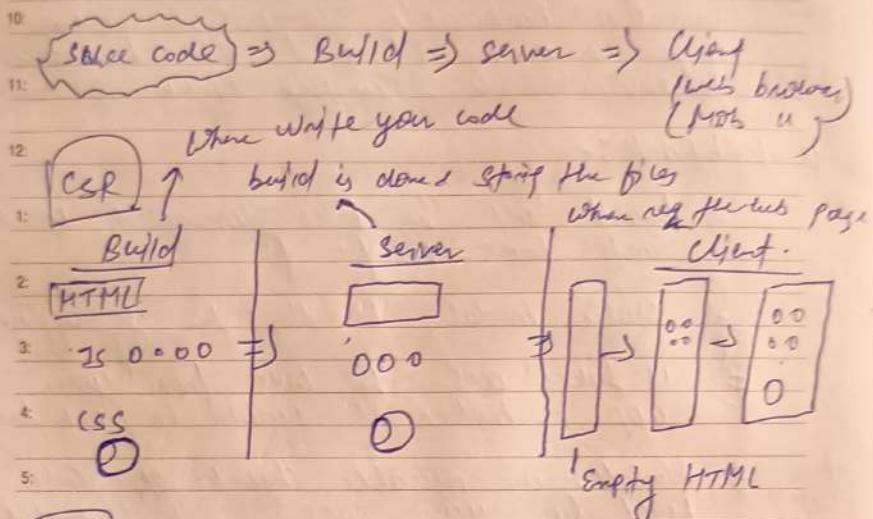
319-47

November

Overall (Kali Page)

Server Side rendering and Client side rendering

Build Process



Shot on moto g64 5G

manish7479dlp

19 Jun 2024, 10:45 am

2012

November

Week 46

15 Thursday

320-46

Braubeej

- 8: • Client-side - In Client side rendering browser will get the bundle of HTML, JS, SC.
- 9:
- 10: • Not SEO friendly

11: Server side - Server will send the complete HTML

12: • SEO friendly.

Real DOM

Virtual DOM

- 2: • It is an abstraction of {
3: a page's HTML }
4: • It can manipulate on screen elements
5:
6: • Any change updates the engine DOM True.
7:
8: • update is slow and inefficient.
- If it is an abstraction of an HTML DOM.
• It can't manipulate other screen elements.
• Any change only updates the relevant node in the tree.
• update is fast and efficient.

To Do List

Priorities:

December

Wk	M	T	W	T	F	S	S
48						1	2
49	3	4	5	6	7	8	9
50	10	11	12	13	14	15	16
51	17	18	19	20	21	22	23
52	24	25	26	27	28	29	30
	1	31					



2012

Week 46

16 Friday

321-45

Tough
30/01/24

November

- 8: Explain the concept of AJAX.
- 9: What is Closure
- 10: What is Hoisting
- 11: What is event loop in JS. And working
- 12: How to handle Errors in JS
- 1: Concept of callbacks in JS.
- 2: What is DOM.
- 3: Purpose of setTimeout fun in JS
- 4: diff b/w null & undefined
- 5: How does the EventEmitter class work in Node JS
- 6: How does Prototypal inheritance work in JS
- 7: What is event delegation in JS & its benefit
- 8: What is the purpose of bind method in JS.

November						
Wk	M	T	W	T	F	S
44			1	2	3	4
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	

Priorities:

To Call:



2012

Week 46

November

17 Saturday

322-44

1. Describe the purpose of the proxy object in js
2. What is the purpose of spread ops in js
3. What is the purpose of symbol data type in js
4. purpose of use strict directive in js
5. concept of arrow/curly feature in js
6. concept of concept of closures & provide a practical example
7. Explain memoization and how it can be implemented in js

18 Sunday

323-43

1. concept of Event bubbling & capturing phase
2. diff b/w call, apply & bind function
3. describe the role of the fetch API in making any HTTP requests
4. discuss the role of the webpack module bundler in js development.

December						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						



2012

Week 47

19 Monday

324-42

November

- ① What are arrow functions? How they are diff from regular function
- * ① What is the diff b/w shallow and deep copy
- * ① Discuss the adv and dis of using typescript over js
- ① What is the purpose of the map, reduce & filter fun in js
- * ① copy b/w documents on local & document loaded.
- ① What is the purpose of IIFE (Immediately Invoked Function Expression)
- ① Explain the concept of the event loop and how it is related to async js
- ① diff b/w mutable & immutable .js
- * ① diff b/w cookies & local storage
for client-side data storage

November						
Wk	M	T	W	T	F	S
44			1	2	3	4
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
	25	26	27	28	29	30

Priorities:

① Diff b/w 'call' & 'return' in the context of async js

To Call:

Stark



2012

November

Week 47

20 Tuesday

325-41 OS

⑩ Diff b/w thread and process

Process

Thread

9:

- Any program is in • It means a segment of a process.

10:

- The process takes more time to initialize
- Thread takes less time to initialize

11:

- If takes more time for creation
- If takes less time for creation

12:

- If also takes more time for context switching
- If takes less time for context switching

13:

- less efficient in term of communication
- more efficient

14:

- the process is isolated
- Thread share memory.

15:

- don't share data with each other
- Share data with each other.

16:

- ⑪ Deadlock: A deadlock is a situation where a set of processes are blocked because each process is holding

To Call:

a resource required by some other process

Priorities:

Waiting for another resource

December

1 2

3 4 5 6 7 8

9 10 11 12 13 14 15

16 17 18 19 20 21 22

23 24 25 26 27 28 29

30 31

- Mutual Exclusion
- Hold and Wait

- No Preemption
- Circular wait



Shot on moto g6 5G

manish7479dp

19 Jun 2024, 10:45 am

2012

Week 47

November

21 Wednesday

326-40

* There are three ways to handle deadlock

① Deadlock prevention or avoidance



② Banker's algorithm

③ Deadlock detection & recovery.

④ Deadlock ignorance.

November						
Wk	M	T	W	T	F	S
44			1	2	3	4
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	

Priorities:

To Call:





2012

Week 48

26 Monday

331-35

*Aman
Botoh my*

November

8. Event loop - In JS, event loop is a fundamental mechanism that enables the asynchronous execution of code.
9. It is the essential part of the runtime env, allowing the language to handle non-blocking operations efficiently.
10. The event loop is responsible for managing the execution of code, handling events & maintaining the flow of control.

How do event loops work

① Call stack

It uses a call stack to keep track of the currently executing function.

② Callback queue

- Asynchronous operations such as I/O operations or timers are handled by the browser or node.js runtime. When these operations complete, corresponding functions (callbacks) are placed in the callback queue.

November							Event loop	To Call:
Wk	M	T	W	T	F	S	Queue	
44			1	2	3	4		
45	5	6	7	8	9	10		
46	12	13	14	15	16	17		
47	19	20	21	22	23	24		
48	26	27	28	29	30			

The event loop continuously checks the call stack & the callback queue. If the call stack is empty it takes the first item from the callback queue & pushes it onto the call stack for execution.



Shot on moto E5450
manish747001

2012

27 Tuesday

Week 48

332-34

November

~~Janish
28/10/12~~

~~Janard
10/11/12~~

④ Execution

⑤ Callback Execution

When an Almeh event is complete, its callback is placed in the callback queue.

⑥ Repeat

The event loop continues this process, ensuring that the call stack is always empty before taking the next function from the callback queue.

A: Prototype Inheritance is if is the linking of prototypes of a parent object to a child object to share and update the properties of a parent class with a child class.

To Call:

Priorities:

December						
W	K	M	T	W	F	S
48				1	2	
49	3	4	5	6	7	8
						9
						10
						11
						12
						13
						14
						15
						16
						17
						18
						19
						20
						21
						22
						23
						24
						25
						26
						27
						28
						29
						30

- Prototypes are hidden objects that are used to share the properties of a parent class with child class.



2012

Week 48

18-19

November

28 Wednesday

333-33

Guru Nanak Jayanti

20

29

①
②10
11

12

③
④⑤
⑥

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

~~A~~ Bind is a method on the proto of all functions in JS. It allows you to create a new function from an existing function, change the new function. This way, it provides any arguments you want the new func to be called with.

~~A~~ Event delegation :- If is a technique where we delegate the responsibility of handling an event to a parent element. By doing so, we avoid attaching multiple event listeners to individual elements.

~~A~~ Spread operator :- used to unpack data as properties element from array or properties from object and place them into another array as object

~~A~~ Rest operator :- used in functionals and for destructuring allows a function to accept infinitely no of args & collect them as an array.

November						
WK	M	T	W	T	F	S
44			1	2	3	4
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	

Priorities:

To do:

~~A~~ Symbols :- Unique data type introduced in ES6. They are used for creating non-enumerable properties. It can help prevent naming conflicts in objects.



2012

Week 48

November

29 Thursday

334-32

- ⑩ We strict directive in js
- ⑪ To enable ESB features.
- ⑫ To enable strict mode which provides enhanced security & reduced error
- ⑬ To override default js behaviour
- ⑭ To enable the browser inbuilt debugger
- ⑮ Diff b/w cookies local storage & session storage
- ⑯ Cookies:- use to identify the user
size 4kb
(web application storage)
- ⑰ Session storage :- 2-10 Mb data storage

To Call:	Priorities:

December						
WK	M	T	W	T	F	S
48					1	2
49	3	4	5	6	7	8
50	10	11	12	13	14	15
51	17	18	19	20	21	22
52	24	25	26	27	28	29
	1	31				



30 Friday

Week 48

335-31

Jan 10/03/14

Jan 1
November
Jan 1

St. Andrews Day

- Q) What is Express JS.**
- Web-application framework for node.js which simplifies the process of building robust, Scalable & efficient web application by providing a set of features & tools for handling routes, middleware, & http requests & response.
- Q) How dynamic routing works in Express JS.**
- Allows you to define routes with parameters allowing your application to respond various inputs. This is achieved using route parameters denoted by a colon (:) following by a parameter name.
- Q) What is Routing & How routing works in Express JS.**
- Routing in Express.js refers to the process of defining how an application responds to a client request based on a requested URL & HTTP Method. It involves specifying how the application endpoints should respond to diff types of requests.

November						
Wk	M	T	W	T	F	S
44			1	2	3	4
45	5	6	7	8	9	10
46	12	13	14	15	16	17
47	19	20	21	22	23	24
48	26	27	28	29	30	

Priorities: To Call:

URL & HTTP method against the defined routes. When a match is found handler function is executed.



2012

Week 48

1 Saturday

336-30

*Janish
10/03/19y*

December

- ① Diff b/w null & undefined
- 9: • Null indicates the absence of a value
 - 10: • for a variable
 - 11: • Undefined indicates the absence of the variable itself
 - 12: • Null is converted to
 - o while performing primitive operations
 - 13: • If it is an assignment value, it can be assigned to a variable which indicates that a variable doesn't point any object
 - 14: • If it is an object
 - 15: • If it is a type itself

2 Sunday

337-29

- ② What is await in JS.
- await are features in JS used to work with asynchronous operation code in a more synchronous & readable manner
 - await is used to define a function as asynchronous, allowing it to use await within its body
 - await is used inside an async function to pause execution until a promise is resolved.

December						
Wk	M	T	W	T	F	S
48	1	2	3	4	5	6
49	7	8	9	10	11	12
50	13	14	15	16	17	18
51	19	20	21	22	23	24
52	25	26	27	28	29	30
	1	31				



2012

Week 49

3 Monday

338-28

December

Janesh
ThobrajyQ: What is appue()

- appue() is typically used to set up middleware that will be executed for every request that matches a particular path or all requests if no path is specified.

① Map function

- Map is used to transform each element of an array into something else. It applies a function to each element & creates a new array of the same length with the modified length elements.

② Filter function

- Filter is used to create a new array by selectively including elements from the original array based on a condition.
- It applies a function to each element & only includes elements for which the function returns true.

③ Reduce function

- The reduce function is used to reduce an array to a single value. If executed a

December						
W	K	M	T	W	T	F
48				1	2	
49	3	4	5	6	7	8
50	10	11	12	13	14	15
51	17	18	19	20	21	22
52	24	25	26	27	28	29
1	31					

Priorities:

Provided function for each element of the array, resulting in a single output value

To Call:

array.reduce(callback, initialValue)



12

Week 49

Tuesday

339-27

*Janish
17/03/24*

December

Callback :- A function to execute on each element of the array. Which takes four arguments : accumulator, current value, current index and the array itself.

Initial Value :- (optional) :- A value to use as the initial accumulator.

Closure in JS

- It is a combination of a function and the lexical environment within which that function was declared. This environment consisting of any local variables that were in scope at the time of function creation.
- Closures allow a function to access its outer scope even after that outer function has finished executing. They are commonly used to create private variables & to maintain state across multiple function calls.

8:

To Call:

Priorities:

January						
Wk	M	T	W	T	F	S
1		1	2	3	4	5
2	7	8	9	10	11	12
3	14	15	16	17	18	19
4	21	22	23	24	25	26
5	28	29	30	31		



2012

December

Week 49

5 Wednesday

340-26

① What is app.use(express.json())
It tells the express application to parse incoming requests with JSON payloads. This means that when your server receives a request with JSON data in the body, express will parse that data into a 'body' object if available in req.body.

② What is CORS
In Node.js, CORS is a mechanism that allows web servers to specify which origins are permitted to access the resources on the server by web browsers. It helps prevent security issues that can arise from making cross-origin requests.

③ What is API
• It is a set of rules & protocols that allows different applications to communicate with each other.
• APIs define the methods & data formats that application can use to request and exchange information.
• They enable developers to access the functionality of other systems, components or services without needing to understand their internal working.

December						
WK	M	T	W	T	F	S
48				1	2	
49	3	4	5	6	7	8
50	10	11	12	13	14	15
51	17	18	19	20	21	22
52	24	25	26	27	28	29
	31					30

Priorities: _____

To Call: _____



2012

Week 49

6 Thursday

341-25

December

① What is flexbox

- It's a CSS layout module that provides a more efficient way to design & distribute space among items in a container.
- With flexbox we can assign & distribute items within a container both horizontally & vertically, regardless of their size or order.
- It's particularly useful for creating responsive layouts & complex alignments in web applications.

② What is grid

- CSS module for creating two-dimensional grid-based layouts, enabling precise positioning & alignment of items within rows & columns.

③ Diff b/w let const & var

Scope:-

- Var is function
- Let & const are Hoisted.

Hoisting:-

- Var are hoisted to the top of the scope but initial value remains

To Call: • Let & const are also hoisted

but they are not initialized

Reassignment & Redeclaration:-

- Var - reassignment & redeclaration within the same scope

• Let var can be used but not declared within same scope.

To Call:		January				
		S	T	W	T	F
1	2	3	4	5	6	
7	8	9	10	11	12	
13	14	15	16	17	18	
19	20	21	22	23	24	25
26	27	28	29	30	31	



2012

Week 49

December

7 Friday

342-24

- 8: const can't be reassigned or deleted.
- 9: Global object property :-
• Variable declared with var are added as properties on the global object
- 10:
- 11: - Variable declared with let or const are not added as properties on the global object
- 12:
- 13:
- 14:
- 15:
- 16:
- 17:
- 18:

December						
WK	M	T	W	T	F	S
48				1	2	
49	3	4	5	6	7	8
50	10	11	12	13	14	15
51	17	18	19	20	21	22
	25	26	27	28	29	30

Priorities:

To Call: