**Day 1 : 10/16/20**

emp.txt

Id, name, salary

store employee details

pipe command

ls | mkdir Abc

command | command | command | command

**Day 2 : 10/19/20**

\* Unix Command line

Given a file, say employee.csv, containing data in the following format

empid,initials,department,leave\_available

1000,KK,CTO\_OFFICE,12

2001,MA,HEXAVARSIT,8

1001,IK,CTO\_OFFICE,9

2002,UM,HEXAVARSIT,7

1002,SK,CTO\_OFFICE,13

2003,VR,HEXAVARSIT,6

2004,JK,HEXAVARSIT,6

\* Give an unix command which returns the record with the maximum leave\_available

\* In the above case, the output should be

1002,SK,CTO\_OFFICE,13

$ --- > bash shell

% ---🡪 C shell

echo $SHELL

/bin/csh

/bin/bash

cat /etc/shells

\* Give an unix command which returns one row per department - department, sum of leave\_available of all employees in that department

\* In the above case, the output should be

CTO\_OFFICE,34

HEXAVARSIT,2­­7

**Day 3 :**

simple if

case (switch statement)

1: create the file : customer.txt

If file present don’t create else create it.

2: add customer info cusid,custname,age

3: display all customer details.

4: display specific customer details using custId

5:

**3 days (HTML/CSS/JavaScript)**

https://[www.google.com](http://www.google.com) URL : Uniform resource locator

http : hyper text transfer protocol (secure)

www: world wide web

google : domain

com : commercial

------http/https(req)--------------------🡪

Client Server

🡨------http/https(res)------------------

Html/html5

Css/Css3

JavaScript (JS)

Validation using

JavaScript

HTML5 Features

HTML : hypertext markup Language which help to create web pages.

Web pages help to display the contents in different format like bold, italic, clips etc

HTML is use to create static as well as dynamic web page.

HTML provided lot of pre-defined tags (elements)

Syntax

<tagName> opening tag

</tagName> closing tag

<tagName/> self closing tag

Html tags

1. Html
2. Head : meta – data (data about data)
3. Body : actual contents to display on web page.
4. P (paragraph tag)
5. Br (break tag) : it doesn’t contains closing tag
6. Heading tag (6 types start from h1(largest) to h6(smallest))
7. b (bold)
8. i (italics)
9. u (underline)

Attribute : Attribute is known as properties of a tags.

Syntax

<tagName name1=”value1” name2=’value2’ name3=value3></tagName>

P and heading tag attribute

<p align=’left/right/center/justify’></p>

<h1 align=’left/right/center/justify’></h1>

Font tag : This tag is use change color, face(style) and size.

Image tag :

<img src=”imageName.jpeg/gif/” />

Hyperlink tag : This tag is use to connect external web page as well as point

to specific para(contents) within a same web page.

2 types

1. External hyperlink
2. Internal hyperlink (bookmark)

External hyperlink

<a href=”pathOfPage”>Text</a>

a – anchor

href – hyper reference

Add the images

**List tags:**

It is use to display the items

1. UnOrder List
2. Order List
3. Definition list

**Table Tag :**

Employee Details

|  |  |  |
| --- | --- | --- |
| **Id** | **Name** | **Salary** |
| 100 | Ravi | 12000 |
| 101 | Seeta | 14000 |
| 102 | Meeta | 16000 |

Form Tag :

Syntax

<input type=”text/password/radio/checkbox/button/submit/reset/file” />

Query Param :

url?key=value&key=value&key=value

Get : By default every form method.

Data will send through url using query param concept.

We can send maximum 256 character data.

Performance fast.

Post : we have write method=”post” in form tag

Data send through body part of http protocol.

Data secure and we can send huge data.

Performance slow compare to get methods.

Get/Post/Put/Delete : But html /html5 doesn’t support put and delete method.

Get : Get the Resources ie employee, customer, product

Post : Create the Resource ie employee, customer, product

Put : Update the Resources ie employee, customer, product

Delete : Delete the Resources ie employee, customer, product

**Day 4 :**

Html 4

.xhtml (document type definition )

<!doctype public url=”…………………………..dtd”>

Html 5

<!DOCTYPE html>

VSCode (Visual Studio) : UI training (angular / react )

.net

Web Page

3 parts

1. Contents : HTML/HTML5 (Basic Action using submit and reset)
2. Presentation : Look and Feel : CSS/CSS3
3. Action : JavaScript

CSS : Cascading Style sheet :

With the help of CSS we can apply good look and feel (formatting style for the contents).

We can achieve **separation of concern** : Contents separate and formatting style.

CSS 3 types

1. Inline CSS
2. Internal CSS or embedded CSS
3. External CSS

Inline CSS

Syntax

<tagName style=”property:value;property:value;”></tagName>

Internal CSS or embedded CSS

Syntax

In head

<style>

Selector {property:value;property:value;}

</style>

Types of Selectors

1. \* universal selector

\*{color:green;}

1. Specific selector

tagName {property:value}

1. Multi selector

tagName, tagName {property:value}

1. Class selector (Local class selector)

tagName.className {property:value}

1. Global class selector

.className {property:value}

1. Id selector

#idName{property:value}

Class selector Vs Id selector

Class : groups of the tag

Id : unique for that tag

DOM : Document Object Model

**JavaScript:**

JavaScript was object based interpreter scripting language. Which help to do client side validation as well as to create dynamic effect for the web page.

JavaScript using ES5 Features

ECMAScript : It is a concept. And JavaScript is a implementation of ES5.

Object Based Vs Object Oriented

Class, object, Encapsulation, Inheritance, Polymorphism and abstraction.

JavaScript is object oriented interpreter scripting language from ES6 onwards.

All browser doesn’t support ES6 all features.

Interpreter

Compiler

Both are translator : converting one format to another format.

Compiler convert all code at time where interpreter convert line by line.

Syntax (script tags)

<script type=”text/JavaScript”> opening tag

</script> closing tag

This tag must be in between head or body or within any html tags.

Variable : variable is a name which hold some value.

Value will change during the execution of program.

JavaScript is loosely data types.

int a=10; //C or C++ or Java

To declare the variable in JS we have keyword as **var**

Syntax

var variableName;

DataTypes

number

string

boolean

object reference

undefined

etc

primitive data types : it is use to store only value.

Syntax to create the memory of pre-defined or user-defined objects

var referenceName = new ObjectName();

var obj = new Date()

var obj = new String();

var obj = new Number();

Operators:

Arithmetic Operator :

+, -, \*, /, %(remainder)

Relation Operator

>, >=, <, <= , ==, !=

Logical Operator

&& || !

Assignment Operator

=

Increment and decrement operator

++ , --

++ increment the value by 1

--decrement the value by 1

Pre-increment and post increment

Pre-decrement and post decrement

++n; increment and store or assign

n++; assign or store and then increment

Ternary operator

Condition ? true : false;

===

if statement

1. Simple if

if(condition){

true block

}

1. If else

if(conditions) {

true block

}else {

false block

}

1. Nested if

if(condition) {

if(conditions) {

true block

}else {

False block

}

}else {

if(conditions) {

}

}

1. If ladder or if else if

if(conditions) {

}else if(conditions) {

}else if(conditions) {

}else {

}

switch statement

syntax

switch(variableName) {

case value:block1;

break;

case value:block2;

break;

case value:block3;

break;

default: wrongblock;

break;

}

switch, case, break and default are keywords.

Looping : it is use to execute the statement again and again till the conditions becomes false.

While loop

Do while loop

For loop

**functions :**

set of instruction to perform a specific task.

1. Pre-defined function
2. alert(“Msg”); This function is use to display alert or popup message on web page.
3. prompt(); This function is use to receive the value through keywords.
4. eval() : It is use to convert string to number
5. confirm : This popup contains two button ok and cancel

If user click ok then it return true else return false.

1. User-defined function

Do

1: Add , 2 :Sub : alert

: prompt

Switch statement

1 : Addition of two number

Alert to receive the value of a and b

eval : convert string to number

2: Subtraction of two number

Alert to receive the value of a and b

Confirm (to do the another operation)

While

**HTML5 : Few forms**

**CSS**

**JavaScript**

**Day 4 :**

user-defined function

syntax

function functionName(parameterList) {

}

1. function no parameter and no return type

2. function passing parameter and no return type

3. function no passing parameter but return type

4. function passing parameter and return type

ES6 React JS

Events : Events is interaction between user and html components.

It is delegation model.

Types of Events

In JavaScript all events start with on\*

like

onClick

onDblClick

onMouseOver

onMouseOut

onKeyUp

onKeyDown

onSubmit

onBlur

onFocus

onChange

etc

Event is provide bridge between html and JavaScript

DOM : document object model

DOM is a api(application programming interface)

which provide set of method and properties which help to read, write and

update html contents dynamically.

JavaScript objects :

In JavaScript object are divided into two types

pre-defined objects.

object : any real world entity.

JavaScript internally follow object hierarchy.

object ---> property (state) ---> have - varialbes

behaviour --------->do/does - functions

object

property (variables)

behaviour (functions)

object

property

behaviour

object

BOM : Browser Object Model

DOM : Document Object Model

user-defined objects.

Interval Functions

setInterval()

setTimeout()

clearInterval()