Assignment no:- 03

Topics covered: - Juvosnipt
- team of Javasnipt
- Javasnipt cappin
- Tavasnipt Stipting
- 150 Data Lya

Date of performance:-

Evaluation Criteria	Marks (out of 3)	Date	Signature of Instructor
Punctuality	03	ladoon	0
Problem solving technique	03	24-08-22	
Attainment level (out of 3)	03		

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### Assignment No-03

What is Juvascript write a Bonic code to represent Juvascript programming?

#### " Javascript (Is) :-

- Javascript is a light-weight object oriented programming language which is used by several weesite for scripting the weepage.
- it is an interpreted item: Hedged programming language that anabable dynamic interactivity on wessite when applied to HTML document.
  - · With Javascript, user can built modern was appulation to interact disectly without reloquing to page even time.

Codymortord dansevot or citized

- Using Javascipting we can simiply to databorer such os councis DB, mongood, etc.

#### · feature 8-

- of All popular week browners support Javascript as they provide built-in execution envisonment
- @ Javascript follow tu syntax any struture of c programming languege
- 3) Javascripting supportable in servay operating system including, windows, macos, en
- @ it 1) core-sensitive language.
- (5) it is provided good control to the user over the wese

- it is lightweight and interpreted language.

## · Application of Javascript

- Javasnipt is used to create interactive wessite it is

the engineer of shop simple to street topics but the terms

- Client sècle vouidation
- Dymamic drop-4000 menu
  - Displaying Date 2 time
  - DISPLAYING POP-DP windows and wiglory boxes

when crows to time document.

Co

- Displaying clock, etchold allow that simple

## · Javascript example!

(Html)

(Body)

(h2) This is Javasript program (h2)

(Gript)

document. write ("welcome to Javasript");

(15004)

(1417ml)

OWPUT

This is Javashipt program welcome to Javashipt.

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(P.2) Explain ty featene of Javasript Javastipt is one of the most popular languages which include

Numerous reature when it comes to use development.

Some of feature are Hohot Java scrip os tollow:

1) Light weigh solipting consumple:

Javassipt is light weight stipting language because it is made for duty handling at the browser only.

THE SET LAND HOLD AND THE PORT OF THE WAY

@ Dynamic Typiny ?-

Javassipt support dynamic typing which mean types of the variable an defined bary on the Stored value

3) Object-oriented programming support!

Javasnipt, two importent principles with oop in javastipt and object creating patterns (Enapsweetion) any code to Resist paytern (Inheritance).

(4) Platform Independent

This implies that Javascript is platform - independent or we Can say it is portable s which simply means that sript once and run in anywhon any anytim

3 prototype-Bord Language:

Javastipt is a prototype - Band scripting canacy.
Fuls mayor Javastipt user prototypes like july, we create
a class and thus we creat object for them class

1 Interpreter Landywere:

Javassipt 10 an interpreted landaux which mean ty script written inside Javassipt 10 processed line is line. These scripts are interpreted by Javassipt interpreted to Javassipt interpreted with a component of ty was brown.

will tack at no hard water we Janes of

tonount in an arian condition to the process of the contract to the contract t

are conjust treating peuterin (Energenterica) and onle a peche

(2) that forms that the to the property of the point interest of the property of the point of th

ear sur is a particle and allering that the strate of the serior of the

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MOSTIZ ARELIGIER.

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0.35 Desribe a application of Javasript.

interesting its also there is the events presented by Javassiet use to various application such as tollowing an impostames vaperication.

1) Web Developments-

Javasript is scripting language used to develop were page. Developed in Netscrops, Is allows developens to create a dramic 12 interactive were paye to interest with visitor any execute complex action. The equipment of the selection

2) Web Application !-

various Javasript bame works an used for developing and building rocurt wer applications in an application like google maps, if usen want to explore a map, out they have to do is click and dray to mouse to get a detailed view.

3) Game !

tavassipt is also used for creating games. it has various libraries and humework for creating a same, a The same can either be 20 or 30. Some Javassipt same entinies such PhysicoT), pisi: I) houp to create of was same

HOLDE IT WHILE THE TOWNSHIP FRANKLIGHT FOR CHARTE

# 

Javastipt is also thelps us to create presentation of weesite. The libraries, such as Revealth and Bespokets, can be used to create a war-based slide deck.

as sharp fitting as the same of the same o

- COHLINGA JON (I

# 5) <u>Server application</u>

A tampe number of wee application have a sorverside to them. Javasript is used to senerate content and handle HTTP. reductor, Javastot can also sun on Server through Mode. Js.

# 1) Mobile Application:

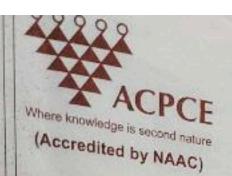
Javassipt, we can built an application for non-war context. The feature and was of Javassipt make It powasted tool for creating mobile applications. The React Hative is widely used Javassipt transmork for creating mobile Application.

B. Same & Pathon To Annoustand Law Brook author

SOUND HEIRLANDS SOUR TO TO SOUND TO SOUND THE PROPERTY OF THE

CENTAL COUNTRY MARKED TOOK FOOD FOR # 4 HOLD BOOK

man was p also of sod circle of colored



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connections

Security

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thus the controlled Land State St. C. of Sold Sci. 04 write a difference between client side scripting and some Ruido Sonpring.

Client side scripting Sorus side Scripting The primary temetion of clien-side TY point function of server-side scripting Scripting is to provide to economical is to maniputate and give a coss to ta perput to the enfluence required dutabase a por eaguest USOS The server-side is used as a buck-ent The client side is used as the front end, where to you get to where duty is processed any is not See what we have browsel. visible to the client uson HTML, Javasript, css on use to PHP, Python, RUGT inode Is an some of anguago disply the sequent the programming lung, and at semm-side

> it suns on tu sower it rum on tueny-user system.

TUSerur-side help connect with th The client-side does not Connect to the autobase at database, which is already stored in tu server dutation 606525Ver

Less secur SEMOX SECUM

client side scripting depend cepon Server-side does not depont upon pepend tu yers brows version tu client

# (0.5) De crice a advantage and obadvantages of Tavascript

## · Advantas :-

- 1) Speed !- client-side Javasnipt is van fort because It can run Promediately within to client-side browser.
  - @ simplicity: Tavarript is returively simple to learn and impleme
  - 3) popularity: Javoscoppt is used everywhere on ty wer
  - @ Rich intestaces in Javasniph provides various intestace to developous for Creating memorisle wespye
  - 6 server Load 1- Below client side reduces ty demand on ty wasite server

#### · Disaquontge

and towned you amb the several

- 1 Client-side Security: The code executes on the user's computer, in some caser it can use for malicious purposes.
- @ Baowser support: Javassipt is sometimes weartein witherently 67 different browsers. IThis make is somewhat difficult to write Cross-proposer code
- Javascript only supports single inheritances and 3 Single Inhersitance not multiple inheritance. Some program may sequisi this our Characteris.
- @ Rendering stopped :- A single code error can stop the sendering of the entise Javassipt code on tu wessite

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Chiefe Printer School delient

DELLAND COUNTY CHAIR

ANNASAHEB CHUDAMAN PATIL COLLEGE OF ENGG. JAVVAHAR EDUCATION SOCIETY'S Where knowledge is second nature (Accredited by NAAC) (Affiliated to the University of Mumbai) Page No.: 19 P.5) SHIT DIKKI (2 Explain programming turdament of 900 Java scripting 1) variable @ Data type (primiture se Hon-primitive) (B) operator (All type of operators) Edvel by Daniel House duty by to Javasoript variable THEORY IN FACTOR OF D A Javasript variable is simply a name of storage location. . There are two type of variable in Javascripf following :-- local variable 9106ay variable . There are some rule while declaring a Javascript variable . Mame mut start with a letter ( a to z or A to 2), Underscop (-) or dollar s\$) sign. · After first letter we can use disit (0 toy) for ex value 1 , Juvosnipt variable are cone sonsitive, tor example x any X are different variable. I avas with Non - printing dette bate Lhtm1> EX TE NOR PRIMITE GUARTERE COL Var x = 10; Var 4 = 20; 440007d75 THERE STRUCTION Var 2 = 24 4; document write (2); 115 CTIPHT (160d1) Output = 30

<h+m1>

#### 2) Data type :

Javasnipt provided different data types to holy different type of value. There are two type of value type in Javanips

- 1) primitive data type
  - 2) Mon-primitive data type.

# · Javasript primitive data type ?-

Thean an five topes of primitive data type in Javastiph as follows:

Data type	Dessiption
String	represent sequences of character Eg. "Heyo"
Muro Gor	represent numeric vouve e.j. 100
Boolean	Represent 6001001 vouce either true or fuln
undefined	represent undefined volve
MULL	represent null. i.e. No Value at ay
	- SIGNAL HURS MILL SOLD

# - Javascript Mon-primitive duta type The Non-primitive data type are as follow:

Data type	Desription
06ject	represent instance through which can assess
Array	represent group of simils values
RegEXP	represent Reguer expression.

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· Java script Louicay operators !!-

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The following operators are known as Juvashipt looked operators

	Operatur	Desviption	Example
	2020	LOSICAL AND	(10==20) 202 20==33)
	1	210	= tal21
	2 5	D SIGH	
-	11	Losical OR	(10==20) 11 20==33)
		STATE OF THE PARTY	ztwn
1		Z-vertex-NASIO	· Juvestiph species
-		Losical Mot	1(10==20) teme
-	Secretary Co. 1 2 at 12 high		

Javastipt Assimment operators:

The following openator on know as Jalysmipt animmen

Sales ( Court of the court of t

DESTRIBUTE

operation.

Operator	Destatered	Example
= at some	Assign Halela weeks area	10+10-20-1010b
+=	Add and assists	Var 9=103.
Lagran on	wer chadle if actor has to the	Var : 9+= 20;
The state of the s	The same and the s	MDW 4 = 30

while anythe requirement of the Della

Operator	Description	Example
( - 2" cost,	And and Juestract only assiste	·a - = 10
* =	mutply and assist	Var = q = 10; $Q = 200;$ $A = 200.$
shipsing a second	Divide any assists	912 = 23
10======	(102 5 20) = Parts	H00 9=5

# · Javasript special operators The following operators on known on Javaniph special operators

operator	Destiption	
(?:) conditional operator return value based ( condition. it is like it else		
)	comma operator allows multiple expression to be evaluated or single statement	
delete	Delecte operator delete a property toom ty	
in	In Operator check if ociet has the given property	
neu	Create un instance (ociect)	
V019	it discomo tu expressioner Edum Value.	

emy various.

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The Bitches Chercino Since of the sty

Hat Bluest

· Thomase following type of operators in Javassipt.

- A sithmetic operator

- tomparison (Res) operator

- Bitwize operators

- Louical operators

- Assignment operators

- Special operators

· Javascript A Eithmetic operatoso :-

"Arithmetic Operators are used to postorios enithmetic operations on the operation."

(2) FRUIT CARREST - 206 = 19 ENES

· The tollowing operators are know or Javasript arithmetic operators.

Operator	Desaiption:	Example	0
+	Addition	10+20 = 30	
(1-00.C) 1	sus truction	20-10=10	I
*	Multiplication	10*20=200	
1 -510	pluision	20/1022	A
70	moduleo	201-1020	
++	increment	Var - 92105 att; How	9=11
	Dearwort	var a=10; a-; H	ou q = 9

- Javascript compasison operators to two operands.

		Example
Openedor	Desalption	10==20=falm
==	is equal to	
=== 40	identical	10 == 20 = feels
]=	Hot egyar to	10/220 = teur
]==	Mot identical	201==20= tay21
>	Gleeater than	20>10= true
>=	Checate than or equal to	20710 = true
~	Loss than	20×10 = tall21
(=	less than or equal to	201=10 feel21

#### · Javasript Bitwisk Operators :-

The Bitwize operators perform situate operations on operands
The Bitwize operators are a telpost

Operator	Description	- State of	Example
<b>₹</b>	Bitwize AND	Gold and	(10==20) 2 (20==23)
I	Bitwin OR	Acres	(10 == 20) · 1 (20==33)
^	Bitwize * XOR	0	(10==20) ^ (20==33) = falzy
5	Bitcoise con MOT	Hall	(010) = -10
22	Bitwize leeft shiff	4115	(10222) =40