NILE	SH GHULE	Paga No.
2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	i vitializer Mexes	
	C++'11 introduced concept	al coulder en
	initialization. It is used of	for initializing object,
	dysamic/static array or oth	er containers.
	int a \$103.	
	float b { 2.2 f 3.	
	int and \$11,22,333	•
	string str & "hello" ?;	/
	double * ptr= new doub	
1		
	initializer-listets is a li	Jaht mejaht ooxa
	object that possible acrees	to an array of
	objects of type const T.	
	initializer liet object is	outs realically rected
	Da beared mit list u	and to list-withdise
	an object, where ctor acce	
	Oc. 253 550 =	N
	A IV	2402 Lid 50045
43	Vector V & 1,2,3,4);	Tomarca-sur Const
	3 peaceq-wit-pot a eigh	
	operator or as for call	
	accept initializar list as	
	@) to braced-init- list is	
	including a varged for	
	)	·

NILESH G	HULE	Page No.  Date
	for a initializer-list <t?< th=""><th>- bosered init-list</th></t?<>	- bosered init-list
	under joins arred is court	
	of this a temporary dread.	is similar to
	any temporary object, howe	er initializer In
	object from that array exte	regar of the epoc of
	array. Note that underlying	actal sear po
	afforated in readonly mon	with (goborgs an
	compler implementation).	
	in a try in	2
	initializer_list<> is readfonte	(not meant to
	be readified) and typically a	accessed though
	iterator or range-based of	
	- Last Last	G. Zinga o
	class Rag &	and the state of t
	mt der [10] = {3.	4
	Mr 5/20 & 3"	the state of the s
	public:	
	Bag (cour Mitightson Mit &	3 (1 3 Gm)
	mt max = Steet (am)	/ Sked (an (a)) = 1=0
	for (auto V: 1) }	
	je (1 >= man)	
	& dee (1++)=v;	
	3	
	512e=11	
	5	
		ita end() {
	sepre one;	return der + Size;
	3	

NILESH GHULE	Paga No.
Bag & operator - (const 101)	Habrer list CMD & DE
// Same or ctor	
3 seturn athis;	
3;	
The man:	
Bag b/ [1,2,3,43]	-> Ctor called
Bag bl E1,2,3,43; bl= \(\frac{2}{11,22,33,443}\)	of op= () called
Par (auto V; bl) > 1	ream & entro collad
Cout << V:	refer range bused
	Per losp.
	100 Map.
	the second secon
/ /	
in the second se	

NILESH GHULE	Pege No.  Dete 10 3 24
Inheriting Const	eritaes
En CAA, Pollowing for	Is are not inherited
O constructor	1 the second
2 destructor	
3 assignment operat	Ø.
Et areans that derived	class sound provide
Ite own Isuble eventation	n. A If not implement
compiler will synthes	172
	5.1/
C+All allow in heritin	
dass. This is done by	sirebly redeclasing
ctor of boye in de	rived with "using"
key word;	
	T 2003
class Earl 3	Tude 10/8;
porate:	1, 1000),
public:	Mor my (2, 2000, 20)
Erop(): 1d(0), sel(0) {	
Eveb (inti ints):!	d(1), sals) 83
₹.	
class Mgr: public Em	2
public:	nent all ctors
bapys; Earl; Earl; Earl; Lay	L
we (inti just 2 int	P), sound(P) 'Emb(1'2)2)
=	
3.	

NILESH GHULE	Page No. Dete
Raco strong l'il	terals
In typical stone Il	
may interpret strings in	T
obviously this can be &	
escape seq. /tab string path = "D: /temp	Juen, tet 11. congeried.
string path = D: 1/tem	
Such chars can be or	ore complex while
dealing with MML, HTMI	or regex.
CAPII pare feature co	
literaly. In this compiler	igrares any special
character.	
String path = R"(D!)	stemp nev. txt)";
To hardles " in ste	
custom delioniter (start/end	
stoted one = Kr (Hello Us	er "(Nilesh)" Cerca
Car idere	d as end of string
Strong onso = R DELIMI (H	lello Ver (diler) DEUM
custom definiter - acra	
Campb Contain	obites paces & back shaha

NILESH GHULE	Page No.  Date 17 2 21
Lambda Function	
* Fundin pointer vs	
Function pointers are used	
functions.	
template < type same T, in	& Size Offdatable
	typerane Geoparatos)
wid Sort (T (las) [size]	
for (int i=0; i < size.	-1; i++) {
for (10)+ = 1+1; 1<	(5)2e; j+A) {
if ( a Comp ( a C	
	std:: move (a[i]);
·	d:: more(d);
a (j) = s	std: more (temp)
3	
3	
bool comp-acc (int x, in	44) {
sehira x < y;	<u> </u>
5	24
Struct Comp-desc &	m 4/2
Dol Oberder () (114 %	, , , )) }
3	
<i>!</i>	
In sorair()!	
11/ 02 C) = 27, 4, 1, 5	,33;
Sort (arr, comp-asc);	
Compadesc comp;	
Sout (over (coub)!	
3	

NILES	I GHULE	Page No.
	Function principles	Function Object.
	C preag feature -	C++ teature - overlanding
	pointer to For.	Operator ()
2	Zovoked on pointe.	Invoked on an object.
3	Dynamic	Static.
4	Can be given at	must be given at
1		Compile time.
9	Difficult to pottonize	Every to options
<u></u>	Slower	Faster
3	Cannot store state	Can Store state
		(as object date member).
1		
	*Lambda exp	200819
<u></u>	Lambda expoessions i	s an anonymous for object.
<u></u>	It is syntactic sugar	r for to object.
	- Skip defining	classistered with opvaluded
	() specator.	
	- also shorter syr	stax for few lines of cole
レ	Lamba expossion Car	a pe bonney on ded to
	fo.	
~	Lambda expression took	ce and of return value
	like for object.	
		<b>Y</b>
<u></u>	Interestly implemented	a nameles En object.
~	Can use and keywoo	ed to rigge tand lambda
	for object.	

NILES	SH GHULE	Paga No.	
	[ capture ] (args) multiple of capture ] (args) multiple of capture of captur	able exception spec	-) solum
	5td:: cout << "hello".  3 ():  Lambda call.	<< std: end);	
	for(); I named lambde  Lambda Cell,		< end).
	Cout << type id (Fn) - non	moda_unique id	> an \$45
	auto sum = () (int x);  return x + y;  3;  sum (10);	is auto	
	IC TOURS		