## lecture - 3

If- Else Condition, Operators and
Basic of loops

- \* Why we write return 0?

  Return 0 tells that the program ends now.

  and after return 0 program is returned and

  ferminated.
  - \* lathy "using namespace std"?

    I've can define the properties of keywords using "using namespace std".
- int main () {

  Int Cout = 10;

  Cout << Cout; 

  The gives error because it

  Cout << cout; 

  Cout understand.
- int main () {

  int Cout = 10;

  Std:: Cout << Cout; >> It Work properly.

  3

(	Page No.			7
	Date :	1	- 1	1

Write a program to check given character is Yowel or Consonant. Vowe: a e i o 4 if tower is vower then print vowel Otherwise and & some & work Print Consonant. In this we use OR operator. a or e or i or o or u + thinclude (Stdio-h) #include (iostream) cusing namespace std: int main () f Char c = 'U';if (c == 'a' | c == 'e' | e == 'i' | c == 'b' | c == 'u') Cout << " Vower"; Cout << " Consonant"; return 0; my gost " > 100 aw nost a read " so has output = Volue1

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*	Write a program to check whether given year is leap			
	or not.			
	For leap:			
	year % 400 = 0			
	→ then leap year			
	year of 4 = 0 & year of 100 1 = 0			
	ho then leap year			
	Otherlaise			
	What Leap year.			
$\rightarrow$	+ include < instream>			
	using namespace std;			
	int main () {			
	int year;			
	on >> year; Il Take input by user.			
	The second second second second			
	if (year % 400 == 0)			
	cout « "leap year";			
	else if (year of 4 == 0 && year of 100 1=0)			
	Cout cc " leap year";			
	else			
Cout CC" Not a leap year";				
	return 0;			
54	3			
	Output:			
	1996			
	Leap year			
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Given a number, check if it is divisible by 3 & 5? Ex 8 10 109.3 = 1 X Not Perfect 15 % 3 = 0 V 15 15%5=0 prefect 9 1. 3 =0 V 9 % 5 = 4 x Not Perfect. Pseudcode 8 if (num o/. 3 == 0) { if ( num % 5 = = 0 ) { Cout ( " Perfect"; ? Cout ( " Not perfect": elsef cout << " Not perfect": Code: # include (instream) using namespace std; int maine f cin >> num:

	Date: / /
	if (num % 3 == 0 && num % 5 == 0)
	Cout <<" perfect";
	else
	Cout << " Perfect Not perfect";
	45 N = 29
	return 0;
	3
	No programme to the state of th
>	output:
D	15
	Perfect
	Visasis A. E.
2)	DO STATE OF A STATE OF STATE O
	Not perfect him had a sent to the sent to
	1
*	For taking input From user:
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	cin >> Variable_name:
4	5 4 54 64 14W ( SS , Kup)
	cin? character input or console input
4	>> extraction
	" to separate training to the second
4	Con the Sales of the
-	That ting then party
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Desta :	1 1			
* Add two number by taking input from	user:			
#include <iostream></iostream>				
using namespace std;				
int main () { Output				
int numt, numz; > 24				
cin>> num1; → 26				
cin>> numz; 50				
int sum;	Nie a la l			
Sym = num1 + num2;				
Cout << "sum is" < <sum;< th=""><th></th></sum;<>				
return 0;				
3				
* Loops :	toS			
Repeat one task a				
	number of time.			
for (initialize; condition; operation)	<b>1</b>			
Tycrement				
11 lines of code	Lead to the			
	NAME OF THE PARTY			
-> We want to print whole number fr	nm t			
-to 100.				
for this we have to write 101	line of			
Code.				
Cout << 1;				

From For loop We can Write easily. for (int i=1; i<=100; i++) { } Cout ((i; Code for printing 1 to n. ... Hinclude (instream) using namespace std: int main () { int n; cin >>n; forlint i= 1; i<=n; i++) { Cout « ick"; return 0; (Contours and Lons of extrapant) of Output . 10 11 12 13 14 1/15 16 17 17 18 topin of of this of sont six the

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		Data;			
*	Pre increment 2	Post increment:			
	1	A miles application of the second			
	++num	Num++			
	Sum = D	first print then add.			
	num = 0;	num = num +1			
	Sum = num++				
	Sum = 0+1				
	Sum = 1+1				
	= 2				
	first add then print.				
		a make a			
	nam :				
	Cout ((++num;	Cout << num++;			
	<b>→</b>				
	output = 0	Output = 1.			
		and the second s			
*	buint on even	number 1 to 20			
	the second contract of the				
	2, 4, 6, 8	3, 10, 12, 14, 16, 18, 20			
	20/02 40/02 60/02				
	= 0 = 0 = 0				
	00m.\.8 = 0				
	L	then it is odd:			
24		this by for loop			
	to check all	number present inside limit.			
		-141 - MUD			
		P + inc			

Code ?		
# include	le (stdio.h)	
using	namespace	अप :

Int main() {

for (int i = 0; i <= 20; i++) {

return 0;

Output :-

2 4 6 8 10 12 14 16 18 20

code for sum of first n natural number.

Let n = 10;

Start from 1; i=1;
Thitially, Sum = 0

Sum = 0+1 = 1

SUM = 5

Sum = 55

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-	N.,	- 4		(P)
0.0	-	d	0	1000

# include < stdip.h>

int main () {

int n:

cin >> n;

Sum = 0;

for lint i= to; i <=n; i++) {

2 Sum = Sum + i;

cout << sum;

return 0;