(Tay)		Date				
	Data types:					
	1) Integer data types					
tering i protessione en e	- The primary considered data type are:	leration while choosing c	e numeric			
e estre in inspire of general productions	shored in a variable (If we exceed he thinit, then					
partial control of the second						
		the emallist or				
Ending the selection subject to the						
(Colorador Service Section Colorador	· How much memory the variable uses. · Variable stores gigned or insigned.					
The second secon						
	· Variable shores signed or unsigned. · number of decimal place precision.					
		and the same of the same				
		28	212			
a programme of the contract of	Datatype	Size or see	2 ange			
and the second		0.0	. 16			
	Short Int.		(215-1)			
unik	Unsigned short int		(2"-1)			
9	int	-2^{31}				
long	unsigned to int	- 21	$\left(2^{32}-1\right)$ $\left(1 \text{ a}\right)$			
4	long int	4B -2"=				
ren Strill	onsigned long in t	4B 0 -	(232-1) O3 (
J	long long int	88 -263 -	(2 -1) com			
med 1	insigned long long int	88 0 -(264-1) Int			
	1271	the stage of the	5.32			
or the second second		·				
green the first of the control suggestions.						
		4				

Day: Date: What if we go above the limit of as wiceble? # Include < ios bream> Using homespace std: 3 Int main () int = a = 3,000 000 000; cout << "The value of a: "<< a < cendl; 8 return O; 10 Terminal The value of a: 2147 \$83647 The value of a decreased! The max value int can shore is (23-1) which is 2147,483,647. So the value changes he the max value stored. How to do find size of voriable: We can we the built-in function of C++: sizeof () cout assize of (int) assize of (a); both will give answer of 4 Bytes. Yousaf

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reef.	Date: /
Day:	Char data types:
	This is used to store individual characters. It can only hold one character at a time.
	example: (consider the int main and return are already calls
1	2000 000 000 E = D: 41 = 30
2	char letter;
3	letter = g';] This is how to be write asingle ch
4	we will not use "" as we
	one not assigning a string and it
	will give an error.
	The value of a: 2147422647
	- Char data type is typically only one Byte.
	- Char data type is typically only one Byte. or 8 bits to be 2"= 256.
	- Char data type is typically only one Byte. or 8 bits to be 2"= 256.
	- Char data type is typically only one Byte. or 8 bits to be 2" = 256. char lB -128-127
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	- Char data type is typically only one Byte. or 8 bits to be 2" = 256. char char IB -128-127 unsigned char IB.
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	- Char data type is typically only are Byte. or 8 bits to be 2" = 256. char char lB -128-127 unsigned char lB.
	- Char data type is typically only one Byte. or 8 bits to be 2" = 256. Char Unsigned char IB. O - 25\$5
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	- Char data type is typically only one Byte. or 8 bits to be 2" = 256. char unsigned char IB. 18. 25.5

Day:		Date: / /		
	Char is an Int data type !?!	100 T 1 (8)		
of the second	- Although char is as is used to store characters, it is actually an int data type: - The reason that it is used to store characters is that			
	- The reason that it is used to shore	characters is that		
-	character internally represent numbers characters are encoded using mostly ASCII There are 256 numbers in one byte and			
No.				
	There are 256 numbers in one byte and			
	every number store a differ	ent choracter.		
	- so there are 256 differen	T. V.		
	ewand with and when almost			
example: (intrain and return already uniter).				
1.	s) re das dalla und danne			
2	do char letter = 65;			
3	cout << lefter << endl;			
4	letter = 66	From 6 5 , Capita		
5	cout << letter << endl;	letters sket.		
(delfer = 97	from 97, samalla		
7	cout & letter exend lis	leffor ctart		
8				
	- it double is a de	ed 1		
	Termina 1000 1000	. 90 6		
		2		
; 1	A 649 200 3 65 représent A	Shoot K		
	B 66 is B	-		
	a 197 is a.			
	75 MAY 1 SER PS 2000 080-6			
		Yousaf		

Day:	Date: / /	
3)	Floating point Datatypes:	
- sadan	- Usal la stre decimal numbers.	
	O. L. 48 G. Dark	
	long Double 813 18 Digits	
	100 - 100 -	
	Pecising the amount of digits offer d.p.	
	- Mormally c++ compilers represent the number by 6 digits only eg (33.3333). but we can change this.	
2	14/19 22 3 Hat 22 July	
	- we can we set precision () from <i mansp=""> . To change precision:</i>	
	Int main andrehin culrealy in of then:	
1 2	float & &; double y; 20 = 10.03; y= 10.0/3; contec setprecision (10) << x<< endley = endl;	
3 4		
5	garbajelus	
	3.333333524 > 1 × way a floor and it can 8.3333333333 > y y way double and it can	
	lar es dig. Yousaf	

Day: Date: / The previous programme showed that the water all digits add up to 10 but if we want eight offer decimal then: cout ex fixed, ce set prevision (10) ex y ex end 1;
This will allow 10 digits after dp. What if we did 10/3 instead of 10.0/3? Mathematical operation hoppen birt answer would have been 3.0 intend of so re ared

10.0 -> Hobb = 3.30?

3-> Hood int even if one is float, the annex is Most. Yousaf

Date: Day: 4) bool oper data type: book can have two values only, 1 or 0, String Data type: For the ve will require a librality: 2string>8 Retent will be discussed later Yousu