Homework Questions of 8/02/2023 aus 1 Write a program to reverse an integer. Suppose that we are given a number n=123. We have to print the output as reversed number 2 this will be 321. ans = 0ans* 10 + digit 0 x 10+3=0+3=3 -ans ans* lo + digit $3 \times 10 + 2 = 30 + 2 = 32 \rightarrow ans$

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	Now picking 1
	1 2 3
	ons * lo + digit
	$32 \times 10 + 1 = 320 + 1 = 321$
	Hence 321 is the reversed number.
	Code int ans = 0
	int num = -124; int temp = numilion end me
	Num = abs (num); While (num > 0) {
2.	ans = ans * lo + digit;
į,	num = num /10;
	if (temp < 0) { > If i/p integor is negative.
	ans = -ans; then reversed number will - be negative as well.
· reactor	and skews out meaning of any in
Ques	Write a program to set the ith bit. To set the ith bit means to make the ith bit as 1.
	O = O
	Suppose We are given a number = 3
	3→000 011 We have to set the 2nd bit. After setting the 2nd bit to 1, the number will change to
	0001_0 III 60 - 6 - 6 - 1 Oly

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	Now we have to think of a bitwise
	operator which can do this.
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	1 & 0 = 0
	100 = 10000 * 10000 * 10000
	Bitwise OR will do the job as if any
	of the bit is 1, then it gives 1 as The
	output.
	2 1 - 2
	n=3, $i=2$
	Let's left Shift 1 by 2 times
	1-1000001
	1 << 2 - 00 - 010 - 00- 100
	the south and and resource of the state of t
	Now 00-100 will be 1 by the 1/4
	number which was 3.
	00100 1000011 0-00111 = 7
<u> </u>	Hence we got the desired result:
	Code and sound a special to the second
	void Set Ith Bit (int n, int i) {
	int ans = 1 << i
	$ans = ans \mid n \mid$
	cout << ans << endl;
	3
Ques	3 Write a program to convert Celsius to
	Fahrenheit
	Formulas day conversion is
	Formulae for conversion is F = 9 C + 32
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	Code
	void convert To F (float temp) {
	float F = (9*temp) /5 + 32 j
<u> </u>	cout << F << endl
	3 2 2 2000 000 000 200 000 000 000 000
	int main () {
	float temp = 37.3;
	Convert To F (temp)
	return O;
	3
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- Suits 9	Why there is infinite number of set bits
	count no of set bits in a number? (Pg 114
	Count no of set bits in a number ? (Pg 114
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	On a negative number in VS
	then at man il in a ser in VS code compiler,
	has a set hits along - I and hence it
	Say there was in City
	on a negative number in VS code compiler, then at maxit is going - I and hence it has a set bits always 4 hence we can say there was infinite supply on the no of set bits.
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