Assignment - 1 2019101091 Problem-1. 1. int x = your rollnumber 1 100: this is in the range of int, so se will be all without doubt. 2. int a = -1 * (x); 3. Unsigned int b= (unsigned int) a: in binary, a is represented as 2's complement of 91, with the number of digits being 32.

So, it is $2^{32} - 91 = 4294967205$. (It's binary representation 4. Unsigned int C = & UINT MAX - Q; UINT MAX is 232-1. So 28 and, a in binary is $C = 2^{32} - 1 - 91 = 4294967204$ 5. ist d= (int) C. C in binary is the same as the two's compenent of 492, as C= 232-92 So if the type of variable is integer, then it will be read as one -92 by the compater. So d = 92. 6. int p= 65490+x. xis 91, and 65490+91 = 65581.

7. Short int e - (Short int) p3
Size of a short is 2 bytes, which is 16 bids. So, it's maning value, is i (2'5-1). now, p is 65581.
2'v : 65536.
but, since we have only 16 digids, it becomes
which, is 45 for unsignal Short.
8. Unsigned short f. (unsigned short a);
So, id is the twols complerent of 91, for 32 bits.
50, it is 232-91 = 4294967205.
We have to take the first 16 digits (binary) from they to get what I is. So, we take the remainder of 232-91 with
Which is 65445.
So, the output is
-91 4294967205 4294967204 -92 45 65445