My roll number is 2019101116. 1.int x=2019101116%100; 2.int a = -1 * (x); a=11111111111111111111111111111111110000 ie it is -16 (by 2s complement). 3.unsigned int b=(unsigned int a); this is explicit declaration for signed a into unsigned; by binary notation $b=2^32-2^4=4294967296-16=4294967280$. 4.unsigned int c=UINT MAX-x; UINT_MAX= 4294967295 x = 16c = 42949672795.int d=(int) c; this shows explicit declaration for unsigned int c c=1111111111111111111111111111111(ie 4294967279) by signed c=-17 ie d=-17 6.int p=65490+x; $65490+x=2^16-46+16$ $p=2^16-30$ 7.short int e=signed int p;

 $e=2^16-30$ as in e we can take 2^16 as 0 in 16 bit consideration as 2^16 is 17 bit so e=-30

OUTPUT: -16 4294967280 4294967279 -17 -30 65520

8.unsigned short f=unsigned short a;

f=2^16-2^4=65520