TRIM-2 - Perogramming & Krishnaraj PT problem selving 109054. I3 1901 22 AssigNMENT - 1 .9.1. A. Explain Nested If statements Dhen an If Statement is used isside another If Statement, that Set of If Statements is called Wested It statements. Jou cannot how nested else statements. It is a concept that is common to almost all programming languages. Syntax if (a = = b) { if (b=c) { Statement is statement is inside the outer one. Statement ; Statements;

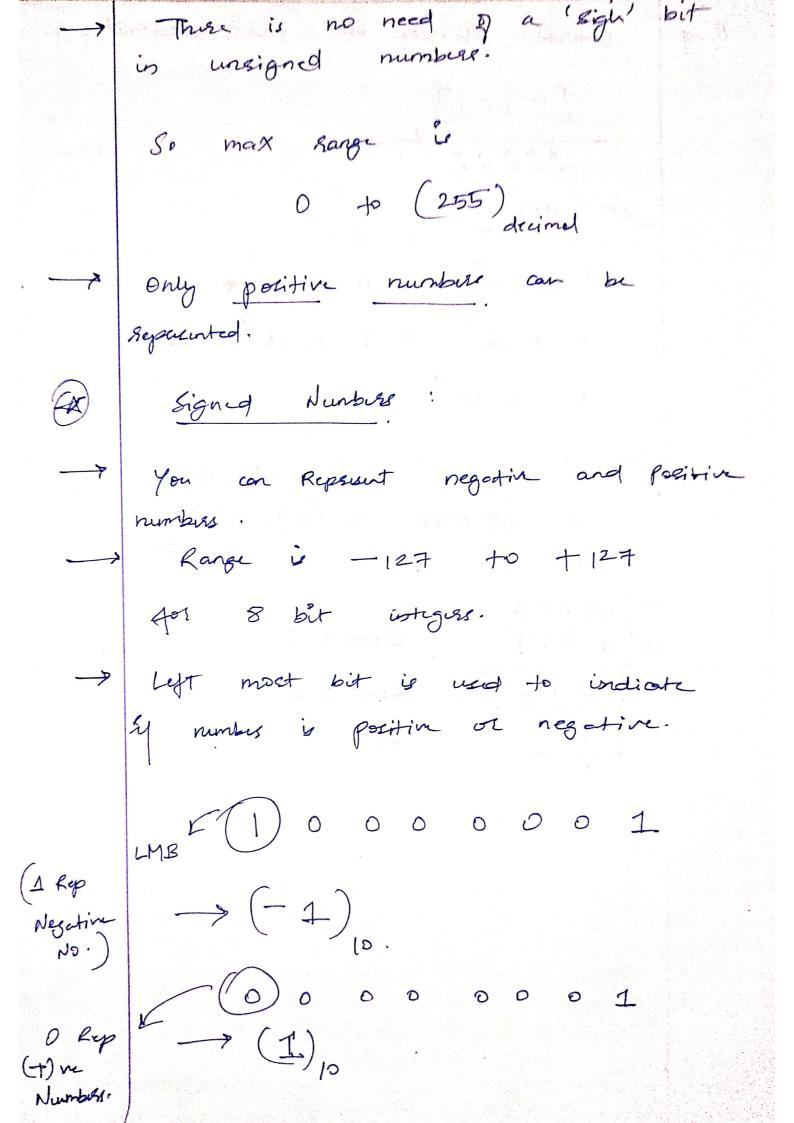
```
· # include (stdio.4)
 int main ()
 int a;
   printf ("Enter a number");
   scan of ("% od", &a);
   1) (a % 2==0)
   if (a % 5 ==0)
     { printf (" Number is divisible
       by both & 2 and 5");
     else if (a y. 3 = = 0)
     2 Print + ( Number is divisible
        by both 2 and 3 11);
} // Divisiblety test.
Seturn o;
```

Use of Brook Statement To exit an iteration in any loop (2) To end an infinite loop 3 to more on to the next Statements after particular case execution of Switch case Statements. (4) Def: Brock is a keyword that con be need within loops to terminate the iteration of that loop at that point. Switch (choice 1) case 1: printf (" 1"); Cell 2: ... break ; defautt:

9.2. What is an array? Give examples and advantages of ways arrays. An one array is a collation of fimilal data elements stored at contiguous memory locations. where each eliment is data structure only accessed number. by using its index Advantages Multiple data types of a ten same.

type can be sepresented by a single name Reduns un of Variables. Memory efficient Avoids Memory overflow and shortage. Elemnts can be accorded handomly very fact using thing index number. using aroug, other Data structures like linked list, stacks, queues queves et con be implemented. Repetiting Tables and Markines.

11 ist a [4] = { 1, 2, 3, 4 5; aci) a [3] 1 2 3 4 a[0] a[] { print f (" Einter name of 10 students"); ist a [10] 102 (int 1=0; 1<10; 1++) { scanf (" 1. d", ha [i]); Seturn 0; Explain signed and unsigned data representation in Binary is represented as Data = (255)10 2726 25 24 23 22 21 20 + this is an uneigned Binary number ALL bits are used to sepresent the



$$= 1 \times 2^{0} + 0 \times 2^{0} + 0 \times 2^{0}$$

$$+ 1 \times 2^{0} + 1 \times 2^{0}$$

So Hx =
$$(19)_{16} = (1001)_{2}$$

= $(25)_{10}$