EMBEDDED C Alternate Module 2:/20 Marks volatile rame L 2 X10 Programs Control: type def existing if - else, nested if data else-if ladder μge e switch case store in LOOPS: CPU do - while \$o₹ faster while access for break continue goto, excit -> Confine the scope! No need for reinitiali zation! Global Variable variable extern vari; Variable dechared in other file func1() { Static a = 10; a++iprintf (".d", a)

inf main () {
funcl();

fun(2();

D: Show error SCANF: -> Read only 12 digit. 3 sign also included PRINTE : digit 30.7.24 Do - while : do while loop starts Execute loop body (i <= 10) with  $\mathbb{A}_{\mathbb{Q}^{N}}$  and  $\mathbb{A}_{\mathbb{Q}^{N}}$  and  $\mathbb{A}_{\mathbb{Q}^{N}}$ goto: label 2; goto label: goto label: Terminate program @

Pattern Program in cat 1 - (3) 6 Marks

i. Total Digits in a number

2. Sum of digits

3. Armstrong Number

Prime Number

5. Reverse

```
# include < st dio. h>
# include (math.h)
int main () {
        int numz, templ, temp2, digit, sum = 03, count=0;
        printf (" Enter No.: ");
        scanf (" 1. d", & num);
```

count ++ ; չ

while (temp1 = 0) {

tremp1 = num; temp2 = num;

temp 1= 10;

digit = temp( 3 7.10;

whi

```
while (temp2>0) {
                 digit = num / 10;
                       1 = 10;
                 sum += pow (digit, count);
           z
        if (num == sum) { ... dyn ...
               printf ("Armstrong No.");
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           printf (" Not Armstrong No. 11);
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