Lecture - 16

Hog ramming in C

How of Constrol (Part 04)

108-

While Loop: La Conditional look (Condition is first priority) \* Explicitly mention the interation and initialization Syntax inticulise the iterative variable (i) While (Condition) { Block of while; iteration; e obtional

La OSÉT & Condition

(Start Point)

Condition (Cong Ranger & E)

Therestion > Update

L > Condition

WAP to print first to positive integers, using while look.

Hart Point int i = 0;

While ( i < 11) }

bright ( , Sq , ' );

· Beause the

Will Memain (0)

cre do not update the

Value of li

i=8x23

(i) j<11 (True) ⇒ 0 it+ -> i=1

(2) i<11 (True) = 1 j++ > j= 2

i< 11 (True) =

1++ → 1=3

IXU (True) =>

1=9 1211 (True) =) 9 i++ 一 i= 10

了くこ

it II (True) = j++ → j=11

1<11 = 11<11 (False) Terminate

1910 parties of while loop: at the is a Conditional loop, totally based on Condition iteration is obtained. => Check the Condition first then capply. d) Initialization variables are explicitly mentioned by Not the part of while doop of the loop et Pick of Infiliate Jook True Eze bhile (1) {

printf ("Mello");

judinite

```
input < number (int), int i=1
                                                         nom > 12 x 1 = 12
3(r1>i) didws
       i x mun < tri
```

```
> < ∰ □ …
whileloop.c
C whileloop.c > 分 main()
                                                                                                  Enter a number:
       #include<stdio.h>
                                                                                                  13
                                                                                                  13 \times 1 = 13
                                                                                                  13 \times 2 = 26
        int main(){
                                                                                                  13 \times 3 = 39
             int num, i;
                                                                                                 13 \times 4 = 52
             printf("Enter a number: \n");
                                                                                                  13 \times 5 = 65
    6
             scanf("%d", &num);
                                                                                                  13 \times 6 = 78
             i = 1;
                                                                                                  13 \times 7 = 91
                                                                                                  13 \times 8 = 104
             while (i<11){
                                                                                                  13 \times 9 = 117
    9
                  printf("%d x %d = %d\n",num,i, num*i);
                                                                                                  13 \times 10 = 130
  10
               \rightarrowi++; // increment the value of i
                                                                                                  PS C:\Users\sagar
  11
                                                                                                   Chand\Programmin
  12
             return 0;
   13
```

12 x 10 = 120 result Common

12 x 2 = 29

C) do-while loop:

Same as while loop, but it execute the block at least one time.

→ on first attempt, the block executes before checking the condition.

do of
Block of do while loop

I while (andition);

See int i=10;

bindf ("%d", i);

while (i<12);

1= 10 j++, j=11 i < 12 ? (The) 1212 (12212) => false 4 Terminate

What will be the output of following do { printf ("Hello %d", i); j++; } while( i<20); 0/1 1220, 21<20 (False) Exit the loop

int \_i=3; do f ; (i "bs") ftrind while (i < 1); i= 3 j -- = j = 2j<1 (2<1) False Exit the look

```
▷ ∨ ∰ □ ···
C dowhileloop.c > 分 main()
                                                                                   Hello10
      #include<stdio.h>
                                                                                   PS C:\Users
      int main(){
                                                                                    Chand\Prog
          int i = 10;
          do {
               printf("Hello%d\n", i);
              i++;
          } while(i<5); //false hai starting se</pre>
          return 0;
                                                                                Conditional
```

MCQ Senes = too Mcg 100+ -Solve moide the lost \_\_ matrix (Advance) } Ramany

= Justinal

> Kapaleurs Constant

- Prime No.

-> Binam NOT

-> Decimal -> other BS

-> other BS -> Decimal

jibonace x