| The state of the s |
|--|
| Puinter: |
| Pointer is used to points the address of |
| the value stored anywhere in the computer |
| memory. To obtain the value stored at location is known as develorencing pointer. |
| Pointer anthmatic: |
| in pointers: ++,, +, - |
| |

Array of pointers: - You can define array of to hold a number of pointers.

Pointer to pointer: - c allows you to have pointer on a pointer and so on.

 $a \rightarrow 10 \rightarrow ualue$ $2000 \rightarrow address$

b → 3000

 $b = \$a \rightarrow$ [b points a]

fragram
Pointer ->

#include < atdio.h>

```
int a = 5;
     int b;
    printf ("value of a = % d In", a);
    printf ( "value of a = % d In", * (&a));
     printf ( value of a = % d In", * b) 3
     printf ("address of a = % uln", &a);
     Printf ("address of a = %d In", b);
     printf("address of b = % uln", fb)
     printf ( value of b = address of a = 40 a, b);
     return o:
output value of q = 5
    value of q = 5
    address of a = 3010494292
    address of a = -1284473004
    address of b = 301049 4296
    value of b= address of a = 301049 4292.
    Program :-
    Pointer to pointer:
     #include < state.h>
     int main ()
      int *bi
```

int ** c ;

b=&a; c=&b; prin+p("

printe ("value of a = % d ln", a);

print ("value of b = address of a = "loce In" b);
print ("value of c = address of b = % u In "b);

printf ("address of c = "buln", d;

return 0;

output

value of a = 5

Value of b = address of a = 2831685116

value of c = address of b = 2831685120

address of b = 2831685128

Structure :-

A structure is a composite data type that defines a grouped list of variables that are to be praced under one name in block of memory.

Program:-

struct structure name

data - type member 1; data - type member 2;