```
int main ()
      int a=5, b= 6, c=4, max;
     mare = (a>b & a>c)? (a): (b>q?b:c);
    printf ("of d", mass);
   retwen o;
 output: 6
  # include < Stdio.h>
                               # include (Stolib. h>
                                                          # Include < Sidio. b>
  int main ()
                              sint main ()
                                                          int main ()
  int i= (0,2,3);
                              int (1=0,2,3); "togino
                                                          int !;
  Printf ("% d", 1);
                              printd("4d", 1);
                                                          if (1=0,2,3)
                              neturn o;
  netwin o;
                                                              prienty ("Hi");
                                                              printf ("hello");
                            ortput: error
output: 3
                                                         print ("40d", 1);
                             # include stdioin
                                                          neturno:
                             int main()
 # Indude < Stdio. b)
                                                         ordput: +11 0
 mtmain ()
                                                         to include (Stdio. h>
                            char 8= A;
                            printf ("doc",a);
inti!
                                                          nt main ()
                           retwen o:
4 (1=(2,1,0))
                                                         int x= 2;
    brint ( " HI"),
                                                         Switch (x) {
                         output: A
                                                           casel: prints ("hi");
else
    printf ("Hello");
                                                           case 2! printf(" heleo");
Print f ("% do"
                                                         noturn O'
netierno:
                                                         output: nello
ordputihello o
     FLOW CHART:
                                                                   - Decision Bon
                                       - Input forespat
           - computation
        - rstart stop:
                                       Ir - r floro of
                                                          0 - connector
                                            contrat
         (start)
 er:
                                                         Hinclude (Stdioh)
      Read X V
                                                        intrahi()
                                                         Intxal;
                    No
                                                        Switch (1) }
                                                         (ase 1: printf("hi");
                   OUT = Y 1
1007 = X
                                                         Case 2: printf(" hecw");
                    STOP
                                                         returno'i
STOL
                                                        output: hi hew.
```

```
under switch sy
                                        #include < stdio.h>
#include < Stdio. h>
                                        (nt mouin ()
int main ()
                                        Char xzA';
int x = 2,
                                        Switch (x)
Switch (x) ?
                                          case A: printf ("hi"); break;
   case 1: printf("hi"); break;
                                         case B: printf ("hello"); break;
   Case 2: printf("hello"); break;
    default: print ("others"); break;
                                          default: printf ("others"); break;
                                        returno;
 neturno;
                                       output! ester
 output: hallo
                                      # include < Stdio.h>
                                       intmaln()
 # include <stdio.h>
  int maln 1)
                                       float X21.13 million
 char X = 'A';
                                        Switch (x) {
  Switch (x)
                                           case 1:
                                                prentf ("hi");
  (ase 'A': printf ("hi"); break,
                                                break;
  ose's; printf ("hello"); break;
                                          case 1-1:
                                                printf ("hello")!
  default: printf ("others"); break!
                                                break;
                                         default:
  returno;
                                               printf ("others");
                                               break;
  output! hi
                                        return 0;
                                                             output, error
  #tinclude <Stdion>
                                                                 Switch quantily not on
   int main ()
                                       #include < stellooh>
   int x21;
                                       Entmain ()
   Switch (x) [
      case 1 : print ("hi");
                                        int mal;
                                        Switch (xel) {
            break;
      Case 1:
                                           Case L:
            printf ("hello");
                                              printf ("hi"); break;
            prak'
                                            Case 2:
      default!
           print ("others");
                                               printf ("hello"); break;
            break;
                                           default:
                                                printf ("others"); break;
   return 0;
   output: arron
        duplicate case
                  value
                                         output; hello
```

garger. Which were

0.

```
= Include < Stdio.b>
int main ()
                                        Int-main()
Pnr X=1;
                                        Proto x=15
Switch (x) {
                                       Switch (x) {
x2 x+ 13
                                                printf ("hi")3
    Case 1:
                                               X2 X+1; break?
                                           Cast 2:
                                                printf ("heleo"); break;
                                           default: printf ("others"); break;
    default:
printf ("others"); breaks
                                          returno;
  return 0;
                                           oritput: his
 output: warning
            La Statement will never
                                            # include C stdlo. h>
         his be crecuted (6 line)
                                              int main ()
 #include (Stdio.h)
                                             A: point (" A");
 int main ()
                                            goto C;
  Prt X21;
                                             B: printf (" B");
  Switch (x) f
                                             C: printf (" (");
      case 2: printf ("hi"); break?
                                            return 0',
      Case 1+1: printf ("hello"); briak?
      default', printf ("others"); break;
                                             ortput: A C
   returno;
                                                               # include < stdio.h7
 output: error: duplicate case value
                                                                Int main () ;
                                    # include <Stdio. h7
                                                                int 121)
   # include < Stdio. A>
                                                                while (i < 2)
                                     (nt main ()
   int main ()
                                                                print f ("hi");
     nulle (1)
                                      1 nt 1= 1;
     prints ("he");
                                     while (iss)
                                                                9=(+1)
                                      printf ("hi").
    return 0',
                                                                returno;
                                      return o;
                                                              output: hi hi
   output. Infinite Loop
                                    output: Sufinita
                                           time hi well
         'hi' alle be
                                             be printed.
            printed
 Hindude Cstdio.h>
  intrain
                               propert hi hi
    inticl;
     do
     printf("hi");
      brile (EK=2); networn 0; }.
```

```
# include (Station)
                                  introun ()
                                   IN1,21',
111/21
                                  for (1=1; 1=2) 1=141);
 102 (i=1; i=ce, i=i+1)
                                      prints ("hi")
   printf("h")
                                      prints ("héllo");
                                  returno;
returno;
                                 owped: him hello
ordput. Whi
                                (check code with & without Semicolons
 Hinclude (Stdioh)
                                after for condition)
 int main ()
                             # include (station)
                              int main ()
  inti=1
                                                 code to print
 for (;;)
                                                         maximum out
                                intajmanto;
                            for (int 121; 1<=5; 1++) {
   printf ("hi")
                                                            of all injuted
                                print f ("Enter a number: ");
                                                              nernumbers
                               Scanf ("%od", &a);
 owew. Infinite hi
                             & manza;
                                print ("%", man);
                               returno;
 Dicina To Binay:
      int h=0;
      while (n ! = 0) {
        2=n%2;
         h = n/2;
         b=b+ x*pow(10, î);
         Î++;
      Printf (" % 1", b);
                                      Entery Py py
```

```
binary to decimal,
just change the base to 10
function is calling itself - self Recursion
                                                 X12358
    fib (n) = fib(n-1) + fib(n-2)
                                                      bib(2)
    fib (1) = 1
    (ib (2) = 2
  Tower of Manoi Krowlen
  Scope of a variable.
   ARRAYS: Linear Data Structure.
         Syntan: int a [100]
                          in no. Of elements
                      Ly variable
                     -) Nata type.
# include (stdio, h)
 int main ()
                      alternative way intare[2]2 [5,6]
   intare[2];
   arr [0]=5;
                                           Juce 3 434 36 5 1. : 1
   arr [1] =6;
   print[(4% d4, arr [0] + arr[1]);
   return o;
                                  In aways elements are linearly stored.
 output: 11
 #include (Statio h)
                                  (Int takes 4 Befter),
 intmain()
                                  Lire of armay need to be pre-defined.
 in+ a Cs ] = [10, 20, 30, 40, 50],
 int 1 2 1;
                                  # include (Stdio.h)
print (" % d", all+2]);
                                  # define size2
                                  int main ()
neturn of
                                   int marks [size];
 output = 40
                                   int ?
                                   for (1=0; i<5ize; i++){
                                   print of ("
```

the state of the state of

```
# include < Stdio h>
  intrain()
   char name [5]= {'R', 'A', 'M', 1B', 'b'} (use ' for charceles
   point f ("% c", name (9]);
                                           a) different differentialist
   neturn o;
  output: 6
                                              white of the state
 #include (Stdio.h)
 int main ()
                                                   · abelianos o gragos
Port flag [2] = {0,1}; = int flag = {0, 1]; (same meaning)
Printf ("Y.d", flag [1]);
 neturn o;
# in cloude < Stdb.h>
int main ()
  int flag [2]; ) so eves
 int-flag[]; I are not-same
 return o, ciros will arise (compelation erros)
# include (stdio. h)
int main ()
 char name[] = {'R', A', M', B', O'];
                                                    < n n d 12 2 2 2 2 2 1 1 1 1
  printf ("1.5" name);
                 I strong data type "
output: RAMB6
#include < Stallo. 65
                    # array bounds are not checked.
in main ()
                          has sound was & then also
 int a [3];
                              als) =89; did'nt gave
acs J= 89;
return 0;
Code will be compiled
```

```
I continuous mensory location
                                                      olod; % ]; % S
9. Predefined Size
                                         These are format
3. bounds are not checked
Hinclade (Stdion)
int main()
  · cher ([3]=('R','A', 1M'])
    if (CE37-51) )
        bayof (atha);
Terminating criterio for any string is 10
 int maln ()
   char c1[6]= { 'R', 'A', M', 10', 'B', '0'}
     output: RAM
int main()
 1 in acs ]= {2,-5,10,8,73;
    into, 1; Temp, n25;
    for (1=01, 1= n-1, 9++){
        for (Jzo', Jon-1, J++){
             ff (a [j+1]<acj])[
                                                   Time complexicity 2 for bubble sort = n
               temp = a [ +1]
               acj+17= acj7'
               a []] = temp;
               I Mend of of loop
             I land of for loop
          I land of outer for loop
   ]- God of Program
    for (120; 1< n; 1++){
          printf (" dod ja (i)), (gi, " b ( e) ") joing
  hehern;
```