1) a) ii) @home : veriable con't start with speical charrectores

iv) 1st_name : cant begain with numbercs

b) i) int a = 'B' - '7' ⟶ 52

ii) float b = (float) (27.5) ⟶ 2

iii) int n = 5, c = n-- + 3 ⟶ 8.

iv) int d = (5 == 5) ? ⟶ 1

c) Alpha

Not Both Even
End
~~Data~~

#

2) a) if (x-y == 1) { int d = x-y; printf ("%d", d); }

else if (x-y == 2) break;

else if (x-y == 5) d = i++;

else if (x-y == 7) ;

else printf ("%d", d);

b)

start	end	current
~~13~~	16	13
~~13~~ 13	21	14
~~17~~	20	15
~~18~~ 17	25	16
21	24	17
		18

i	start	current	end
1	13	13	16
2	14	14	16
3	~~15~~ 17	15	15
4	18	16	~~15~~

3) a)
```
int i=1, j=1;
while (n<8) {
    int n = i+j;  n = n+2;
    while (n<12) {
        n++;
        printf(" i=%d, j = %d and n = %d \n", i, j, n);
    } j+=2; i++;
}
```

c)
```c
include <stdio.h>
int main() {
    int n;
    scanf("%d", &n);
    if (n%2 == 0) return 1;
    for (int i = 1; i <= n; i++) {
        for (int j = 1; j <= n; j++) {
            if (i == 1 || i == n || i == j || (i+j = n+1))
                printf("*"); else printf(" ");
        } printf("\n");
    }
    return 0;
}
```

4) a)

i	j	m[]
0	5	m[0] = 5
1	7	m[1] = 8
2	9	m[2] = 13
3		

b)
```c
include <stdio.h>
int main() {
    int i, max, s_max, arr[10];
    for (i=0; i<10; i++) scanf("%d", &arr[i]);

    max = s_max = arr[0];

    for (i=1; i<10; i++) {
        if (arr[i] > max) {
            s_max = max;
            max = arr[i];
        } else if (arr[i] > s_max && arr[i] != max) {
            s_max = arr[i];
        }
    } printf("Sceond max: %d \n", s_max);

    return 0;
}
```