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Experiment C-12

Aim :

To write the c++ program to draw man Walking in rain with Umbrella.

Algorithm:

Step 1: Start.

Step 2: Draw horizontal line representing ground.

Step 3: Fill the screen randomly with raindrops.

Step 4: For every Y co-ordinate change the position of raindrop to give raindrop effect.

Step 5: Draw man standing with the umbrella.

Step 6: For every X co-ordinate change the person's posture of man to give walking man effect.

Step 7: End.

Program:

```c
#include<stdio.h>
#include<graphics.h>
#include<stdlib.h>

int main() {
    int gd = DETECT, gm;
    int rhx, rhy, j, i;
    char *drop = (char *)"|";

    initgraph( & gd, & gm, NULL);

    for (i = 0; i < 500; i += 5) {

        line(20, 380, 580, 380);                    //platform

        if (i % 2 == 0) {
            line(25 + i, 380, 35 + i, 340);         //leftleg
            line(45 + i, 380, 35 + i, 340);         //right leg
            line(35 + i, 310, 25 + i, 330);         //left hand
            delay(20);
        } else {
            line(35 + i, 380, 35 + i, 340);
            line(35 + i, 310, 40 + i, 330);
            delay(20);
        }

        line(35 + i, 340, 35 + i, 310);             //body
        circle(35 + i, 300, 10);                    //head
        line(35 + i, 310, 50 + i, 330);             // right hand
        line(50 + i, 330, 50 + i, 280);             //umbrella stick
        line(15 + i, 280, 85 + i, 280);             //umbrella bottom
        arc(50 + i, 280, 180, 0, 35);               //umbrella body
        arc(55 + i, 330, 360, 180, 5);              //umbrella handle

        rhx = getmaxx();
        rhy = getmaxy();

        for (j = 0; j < 5; j++) {
            outtextxy(rand() % rhx, rand() % (rhy - 50), drop);
            setcolor(WHITE);
        }

        delay(150);
        cleardevice();
    }

    getch();
}
```

Output:

SDL-libgraph -- Graphics on GNU/Linux