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//Code by Prameet
// Header file assign
#include "bresen.h"

#include "two_d.h"

#include "clip.h"

#include "bcircle.h"

#include "mcircle.h"

#include "dda.h"

void assign() {
  int choice, option;
// for choosing between the menu choices
//for choosing between algorithms
  int gd = DETECT, gm;
  initgraph( & gd, & gm, "c:\\turboc3\\bgi ");
  clrscr();
  while (1) {
    clrscr();
    printf("\n \t \t Welcome to the software\n");
    printf("\n \t \t Please select your choice fron the below provided options\n");
    printf("\n \t\t \t Press 1. To draw a line \n");
    printf("\n \t\t\t Press 2. To draw a circle \n");
    printf("\n \t\t\t Press 3. for line clipping \n");
    printf("\n \t\t\t Press 4. for 2_D Transformation \n");
    printf("\n \t\t\tPress 5. to exit\n");
    scanf(" %d", & choice);

    switch (choice) {
    case 1:
      clrscr();
      printf("\n \t\tWhich algorithm you like to use for drawing line\n");
      printf("\n \t\t\tPress 1. for DDA \n");
      printf("\n \t\t\tPress 2. for Bresenham Line drawing algo\n");
      scanf("%d", & option);
      if (option == 1) {
        dda();
      } else if (option == 2) {
        bresenham();
      } else
        printf("\nInavalid Input Please try again\n");
      break;
    case 2:
      clrscr();
      printf("\n\t\t\t Which algorithm would you like to use for Circle drawing\n");
      printf("\n \t\t\tPress 1. for Bresenham Circle Drawing Algo\n");
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      printf("\n \t\t\tPress 2. for using Mid-Point  circle drawing algo\n");
      scanf("%d", & option);
      if (option == 1) {
        bresen_circle();
      } else if (option == 2) {
        midpoint_circle();
      } else
        printf("\nInvalid Input Please try again\n");
      break;
    case 3:
      clrscr();
      line_clip();
      break;
    case 4:
      clrscr();
      two_d_trans();
      break;
    case 5:
      exit(1);
    }
    getch();
  }

}
```