PARSHVANATH CHARITABLE TRUST'S
A.P. SHAH INSTITUTE OF TECHNOLOGY
Department of Computer Science and Engineering
Data Science

Real Time Clock

Faizan Mahimkar_21107007
Varad Joshi_21107002
Khushi Chhoker_21107055

Project Guide
Ms. Poonam Pangarkar

Contents

- Introduction
- Objectives
- Features
- Built in functions used
- Block Diagram
- Output Screenshots

1. Introduction

- In this project we will be implementing a real time clock in computer graphics using C.
- The project is about Displaying the time on the system/device on the screen in the form of a real clock .
- A clock has been designed with an hour ,minute and seconds hand and displayed on the plane .

2. Objectives

1. To manipulate visual and geometric information of image.
2. To implement various clipping algorithms.
3. To understand various functions and commands in graphics.
4. To enhance the concept of the knowledge in C language and it’s applications.
5. To study the implementation of various header files and the predefined functions inside it.

3. Built in functions used

2. 1) circle(): The header file graphics.h contains circle() function which draws a circle with center at (x, y) and given radius.

   Syntax: circle(int x, int y, radius);

3. 2) setcolor(): The header file graphics.h contains setcolor() function which is used to set the current drawing color to the new color.

   Syntax: void setcolor(int color);

4. 3) closegraph(): The header file graphics.h contains closegraph() function which closes the graphics mode.

   Syntax: void closegraph();

5. 4) getch(): It is present in conio.h header file reads a single character from the keyboard.

   Syntax: int getch(void);

5) line(): line() is a library function of graphics.h header file in c programming language which is used to draw a line from two coordinates.

Syntax: line(int x1, int y1, int x2, int y2);

6) !kbhit() : !kbhit() is a function used to determine if a key has been pressed or not.

7) getarccoords() : getaccords() is a function which is used to get coordinates of an arc which is drawn most recently. arccoordstype is a predefined structure which is defined as follows:

Syntax : struct arccoordstype

```
{
    int x, y;
    int xend, yend;
};
```

8) pieslice() : pieslice() draws and fills a pie slice with center at (x, y) and given radius r .

Syntax : void pieslice(int x, int y, int s_angle, int e_angle, int r);

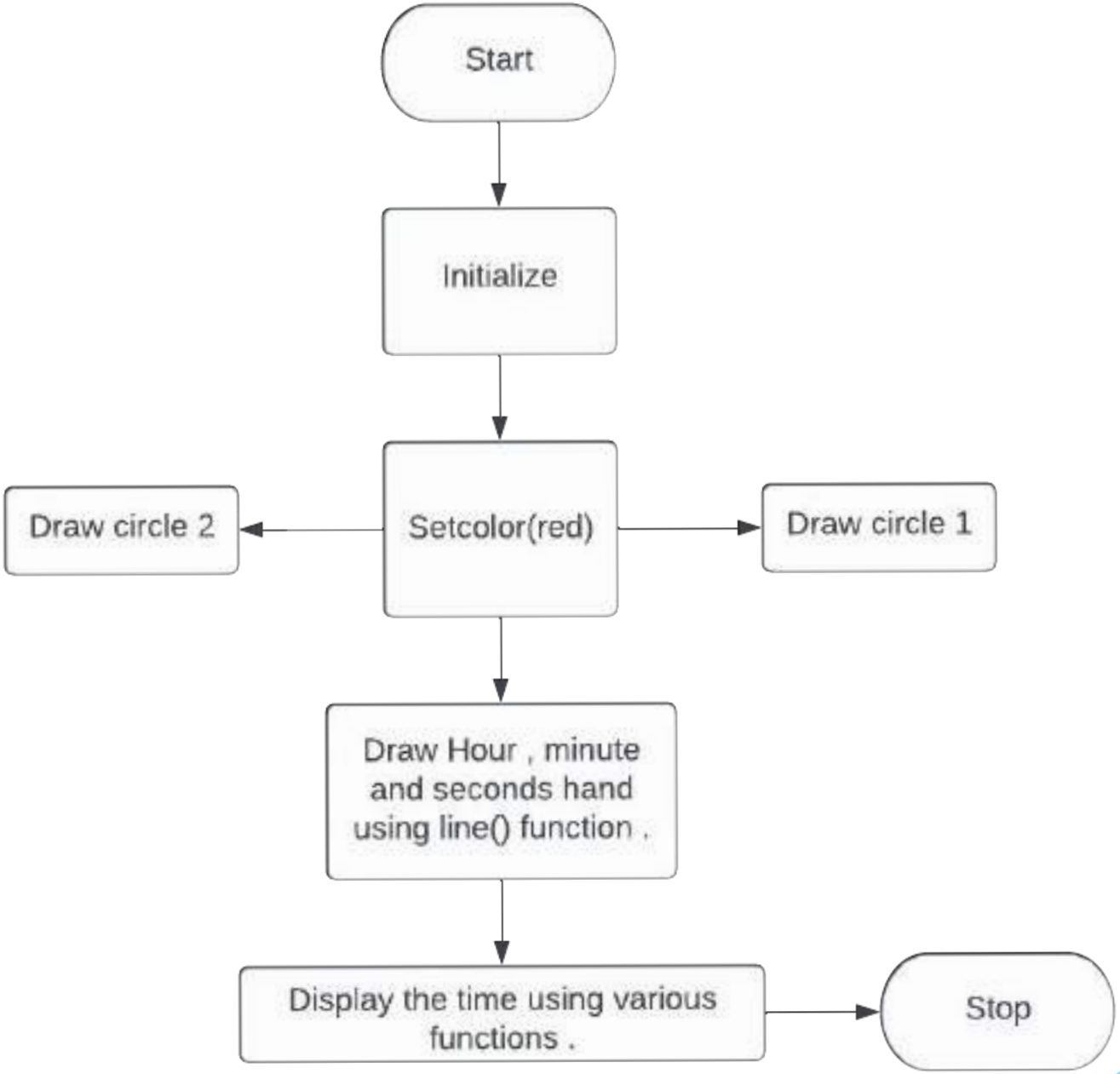
9) delay(): used to suspend execution of a program for a particular time

Syntax : void delay(unsigned int);

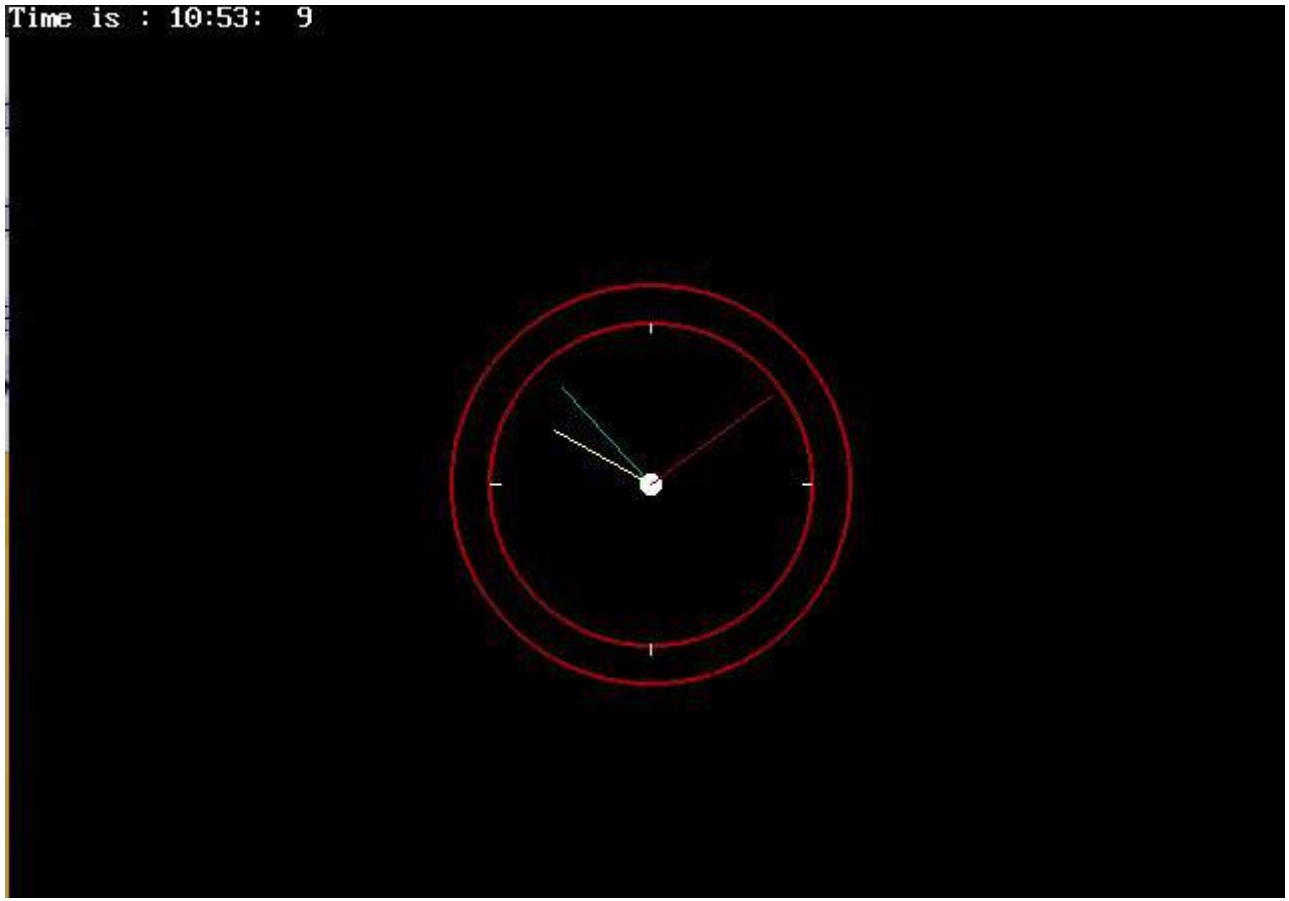
10)arc(): used to create an arc .

Syntax : void arc(int x, int y, int start_angle, int end_angle, int radius);

4. Block Diagram



5. Output of Project



Thank You...!!