SULOCHANA BELHEKAR SHIKSAN SANSTHA'S

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BHANASHIVRE, NEWASA, AHMEDNAGAR.

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MICRO PROJECT REPORT

SUBJECT: COMPUTER GRAPHICS

Subject Code: 22317; Course: CO3I

Year: 2019-20; Semester: Third; Term:ODD;

ON

"Analog Clock"

SUBMITTED BY

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2.Tejas Phatake

3. Paresh Jawale

GUIDED BY.

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Actual resource required=>

Sr Name	Name	Specification	Quantity
1	Computer	2 GB RAM	2
2	Website	Project related website	5
3	Books	Project related books	2

Skill development =>

We identified in this mini project how to make a graphical Analog Clock with TurboC++

We have learn to developed micro project in C++ program in TurboC++

We also have learned such skill implemented classes and object.

Introduction =>

This project is based on the working of TurboC++ .

In this project I will use C++ language in TurboC++ software and make a graphical rain nature program with source code.

I will download source code on internet .

Aim =>

Develop a C++ program of Analog Clock in TurboC++ software using C++ language.

Action Plan =>

Sr No.	Detail Of Activity	Plan Start Date	Plan Finished Date	Responsible Team Member
1	Topic Search			Ashutosh Palhare
2	Topic Selection And Implementation			Tejas Phatake
3	Actual Implementation			Ashutosh Palhare
4	Testing			Jawale Paresh
5	Run program			Ashutosh Palhare

Resource required =>

Sr no.	Name	Specification	Quantity	Remark
1	Android Phone	1GB RAM 8GB STORAGE	1	
2	Computer	4GB RAM 500 GB HDD	1	
3	Websites	Used websites of C++ Tutorials		
4	Books	Project related books	2	

Title=>

“Develop a C program of Graphical Analog Clock in TurboC++.”

Aim =>

Develop a C program of Graphical Analog Clock in TurboC++ software using C language.

Course outcome integrated =>

1. **Collection of data elements.**
2. **All header file are include which are used in program.**

Actual process followed=>

1. First we Download TurboC++ Software from internet.

2. Second step download source code from github.com

3. Copy all source code in notepad.

4. And write all codes in TurboC++ software.

5. Run program we get graphical natural rain seen on monitor screen

Brief description =>

A simple Graphical Analog Clock can be made using a C language . in this program A very simple type of clock.

Testing=>

Testing perform a very critical role for write code in TurboC++ and run program . Testing is done to number , cursor , time etc. all is successfully show on monitor screen.

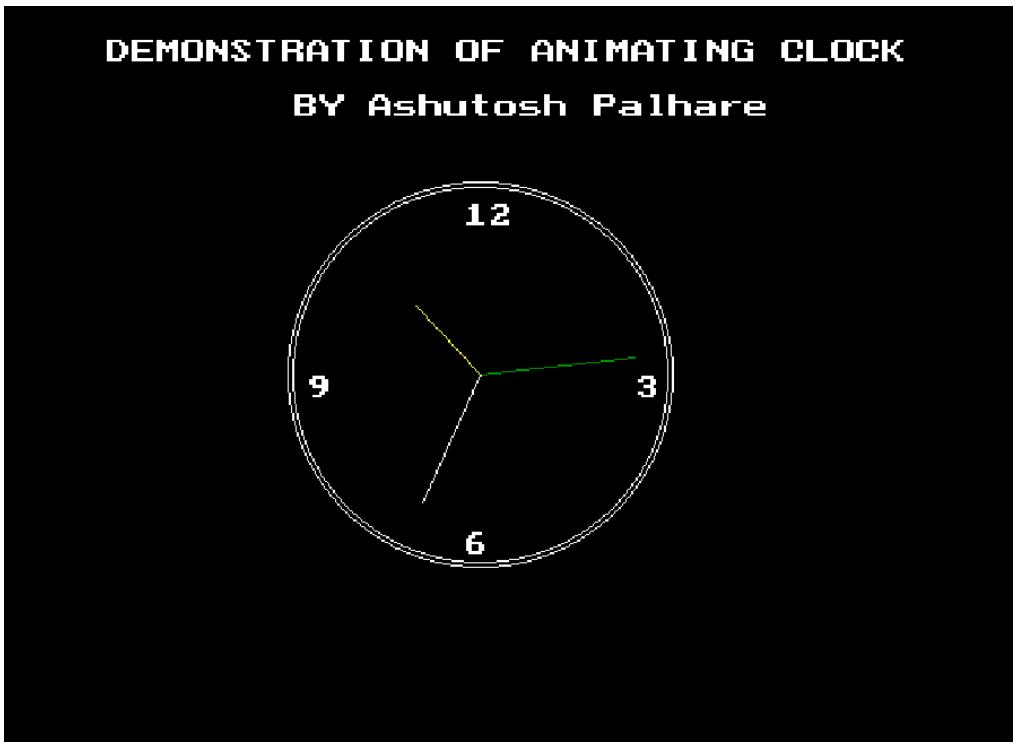
Program=>

```
#include<graphics.h>

#include<conio.h>

#include<iostream.h>

#include<dos.h>

#include<math.h>

#define x 3.1415

struct time t; /*Structure to get time from the computer Bios.It will show

                        Current time of your stystem.*/

void main()

{

 int gdriver=DETECT,gmode;

 float sec_x,sec_y,min_x,min_y,hour_x,hour_y,h=0,m=0,s=0;


 initgraph(&gdriver,&gmode,"c:\\turboc3\\bgi");   //Write the Path of BGI folder

 gettime(&t);

 h=t.ti_hour;

 if(h>=12)

 h=h-12;

 m=t.ti_min;

 s=t.ti_sec;
```

```
settextstyle(DEFAULT_FONT, HORIZ_DIR, 2);
outtextxy(80,25,"DEMONSTRATION OF ANIMATING CLOCK");
outtextxy(200,60,"BY Ashutosh Palhare");
circle(getmaxx()/2,getmaxy()/2,120);
circle(getmaxx()/2,getmaxy()/2,123);
setfillstyle(SOLID_FILL,BLACK);
floodfill(320,240,WHITE);
while(!kbhit())
{
 setcolor(WHITE);
 settextstyle(DEFAULT_FONT, HORIZ_DIR, 2);
 outtextxy(420,240,"3");
 outtextxy(210,240,"9");
 outtextxy(310,130,"12");
 outtextxy(310,340,"6");
 sec_x=100*cos(2*x/60*s-x/2)+getmaxx()/2;
 sec_y=100*sin(2*x/60*s-x/2)+getmaxy()/2;
 min_x=90*cos(2*x/60*m-x/2)+getmaxx()/2;
 min_y=90*sin(2*x/60*m-x/2)+getmaxy()/2;
 hour_x=60*cos(2*x/12*(h+m/60)-x/2)+getmaxx()/2;
 hour_y=60*sin(2*x/12*(h+m/60)-x/2)+getmaxy()/2;
 setcolor(GREEN);
 line(getmaxx()/2,getmaxy()/2,sec_x,sec_y);
 setcolor(WHITE);
 line(getmaxx()/2,getmaxy()/2,min_x,min_y);
 setcolor(YELLOW);
 line(getmaxx()/2,getmaxy()/2,hour_x,hour_y);
 delay(1000);
 setcolor(BLACK);
```

```
 line(getmaxx()/2,getmaxy()/2,sec_x,sec_y);
 line(getmaxx()/2,getmaxy()/2,min_x,min_y);
 line(getmaxx()/2,getmaxy()/2,hour_x,hour_y);
 s=s+1;
 if(s>=60)
 {
  s=0;
  m=m+1;
  h=h+1/60;
 }
}
 nosound();
 getch();
 closegraph();
}
```

Output=>



Conclusion=>

1. C language Is a very important language in programing field.

2. Github.com is very important website for downloading source code.

3. Internet is best friend for research and learn programing and many more.

4. Make a graphical Clock program is very difficult but not a impossible.