**PART B**

**AIM OF THE PROJECT:** Micro-Project On Moving Balloon

**Brief Description:**

* The project consist of a moving balloon.
* The arc ( ) function in the project is used to draw a arc with given center and radius.
* The line ( ) function is used to draw lines with given information.
* The function such as rectangle ( ) and circle ( ) are used for drawing respective shapes.
* The delay ( ) function is used to control the speed of balloon.
* Some graphics function such as clear device ( ) and set color ( ) are used for formatting the object.

**Aim of micro project:**

This micro project aims at:

* To study about a new concept that is creating a graphical representation of a object.
* Detail study of each and every graphical function used for creating the project.
* To use different mathematical concepts to create the object
* To use different mathematical concepts to create the object
* It aims at using different header files.

**Course outcome integrated:**

1. Manipulate visual and geometric information of images.
2. Implement slandered algorithm to draw various graphic object using c program

**Actual procedure followed:**

1. **Group Formation: -** CGR is subject which teaches us some important graphic function used to create graphical representation of object. The basic aim of micro- project is to accelerate the attainment of the variouse outcome in the course. In the first 2 weeks of August the subject was introduced. The syllabus as well as detail of micro-project was discussed. The group of 3 members were formed and the group leaders were selected. The schedule of Plan “A”,”B”& “PRESENTATION” were finalized.The variouse micro-project topics related to subject was discussed our guide gave us the opportunity to select the topic of our choice.
2. **Finalization Of Micro-Project:-** After attending the lectures for 2 weeks.We selected the topic for micro-project.We discussed the topic with our Guide regarding the concept which we are going to apply in the project.We individually tried to explain the basic platformof project.
3. **Planning:-** After finalization of the project we started working on the project.we started the planning phase.We discussed among ourselves regarding the resources such as hardware & software requirements,compiler.In this week we completed ‘PART A PLAN’ of the micro-project which is nothing but a initial description about the project.We submitted it to the guide.
4. **Module Distribution &Analysis Part:-** Once the planning was over regarding resource’s etc . .According to members we distributed the module among us .We started the analysis of project.
5. **Design Part :-** In this part we created algorithm & flowchart for our micro-project .By doing this our queries related to project got cleared. With the help of this we were able to explain the guide how our project will actually work.
6. **Implementation :-** In the week we actually started the technical phase .In this phase we technically applied the algorithm & flowchart for each module.The coding for each module was done each member was writing code according to module assighned to them.the testing of code was done to achieve the requirementof project.finally the project was within the schedule time.
7. **Presentation :-** In this week we have to present the micro-project in front of the guide.Each member of group presented their own parts with confidence in front of guide.She asked us variouse queries regarding the topics.We presented the details of each concept of the graphics functions that we used in the project. She asked us to do variouse changes regarding some topics.
8. **Submission:-** This week was submission week.We submitted our project along with ‘Part A & B Plan’ to the guide.We also submitted the hard copies and soft copies of project to the guide

**Actual resources used :**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| SR NO | NAME OF RESOURCES USED | SPECIFICATION | QUANTITY | REMARKS |
| 1 | COMPUTER | **PROCESSOR**-AMD  **HARD DISK-**2 TB  **RAM**-16GB  **OPERATING SYSTEM**-WINDOWS 10 PRO | 1  1  1  1 | HARDWARE & SOFTWARE USED |
| 2 | TURBO C | TURBO 4.0 |  | IDE & COMPILER FOR C PROGRAMMING |
| 3 | PROGRAMMING LANGUAGE | C |  | PROGRAMMING LANGUAGE |

**Output of the micro project:**

The output of the project is according to following index:

|  |  |
| --- | --- |
| SR NO | CONTENT |
| 1 | FLOWCHART |
| 2 | ALGORITHM |
| 3 | CODING |
| 4 | CODE OUTPUT |
| 5 | REFERENCES |

FLOW CHART



**SETCOLOR (14)**

**ARC (85+M,360-N,0,360, J)**

**line(35+(i)+m,410-n,60+(i/2)+m,440-n)**

**line(60+m,440n,65+m,460-n);**

**line(110+m,440n,105+m,460-n);**

**rectangle(65+m,460-n,105+m,475-n);**

**j=0;**

**FOR (i=0;i<100;i)++)**

**for (i=0; i<5;i++)**

**m=m+1**

**n=n+3**

**circle(70+j+m,450-n,3);**

**rectangle(68+j+m,452-n,72+j+m,460-n);**

**j=j+8;**

**Delay150;**

**clear device ();**

**m=m+2**

**n=n-0**

**else if(s<120)**

**If (s<60)**

**STOP**

**m=m+3**

**n=n+3**

**Else if (s<350)**

**m=m+1**

**n=n-0**

**else if(s<180)**

ALGORITHM

**STEP 1:** Start

**STEP 2:** DECLARE Gd DRIVE=Detect, GM, X, Y, I, J=0, S, M=0, N=0

**STEP 3:** For (S=0; S<350; S++) {

For (I=0; I<70; I++) {

Set color (14);

Arc (85+M,360-N,0,360, I);}

For (I=0; I<100; I++) {Line(35+(I) +M,410-N,60+(I/2) +M,440-N);}

Line(60+M,440-N,65+M,460-N); Line(110+M,440-N,105+M,460-N);

Rectangle(65+M,460-N,105+M,475-N); J=0;

For (I=0; I<5; I++) {Circle(70+J+M,450-N,3);

Rectangle(68+J+M,452-N,72+J+M,460-N); J=J+8;}

Delay (50); Clear device ();

If(S<60) {M=M+1; N=N+3;}

Else If(S<120) {M=M+2; N=N-0;}

Else If(S<180) {M=M+1; N=N-1;}

Else If(S<230) {M=M+1; N=N-0;}

Else If(S<350) {M=M+3; N=N+3;}

GTECH ();

}

**STEP 4:** Stop

CODING

#include<stdio.h>

#include<conio.h>

#include<graphics.h>

#include<dos.h>

void main()

{int gdriver = DETECT,gmode;

int x,y,i,j=0,s,m=0,n=0;

initgraph(&gdriver,&gmode,"C:\\Turboc3\\BGI");

for(s=0;s<350;s++){

for(i=0;i<70;i++){

setcolor(14);

arc(85+m,360-n,0,360,i);

}

for(i=0;i<100;i++){

line(35+(i)+m,410-n,60+(i/2)+m,440-n);

}

line(60+m,440-n,65+m,460-n);

line(110+m,440-n,105+m,460-n);

rectangle(65+m,460-n,105+m,475-n);

j=0;

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

circle(70+j+m,450-n,3);

rectangle(68+j+m,452-n,72+j+m,460-n);

j=j+8;

}

delay(50);

cleardevice();

if(s<60){

m=m+1;

n=n+3; }

else if(s<120){

m=m+2;

n=n-0;

}

else if(s<180){

m=m+1;

n=n-1;

}

else if(s<230){

m=m+1;

n=n-0;

}

else if(s<350){

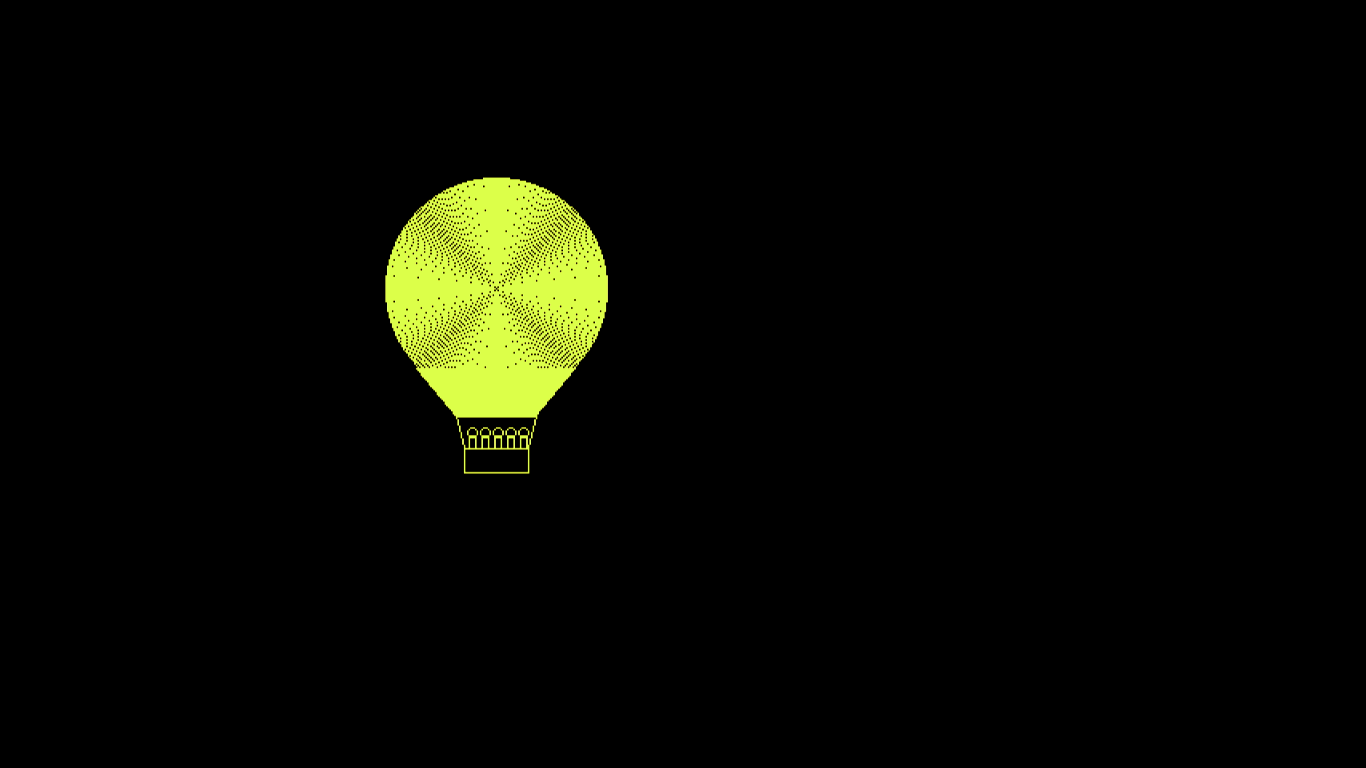
m=m+3;

n=n+3;}

getch();

}

Code output



REFERENCES

We do have used a few references during the process of building our project. The references used are from Websites, Books etc.

The references used are:

WEBSITES:

1: www.programiz.com.

2: www.tutorialspoint.com.

3: www.quora.com.

REFERENCE BOOKS:

1: COMPUTER GRAPHICS by DONALD HEARN(2012)

2: COMPUTER GRAPHIC by MAURYA RAJESH k (2011)

**Skill developed/learning out of this micro project :**

* Since we worked in a group,We developed the skill of ‘TEAMWORK’ in us
* We came to know how and when to use some of the important concept of graphics.
* We attained the satisfied level of programming