

Vidyavardhini's College of Engineering & Technology

Department of Artificial Intelligence and Data Science

Experiment No. 10

Aim: To develop programs for making animations such as

Objective:

Draw an object and apply various transformation techniques to this object. Translation, scaling and rotation is applied to object to perform animation.

Theory:

- For moving any object, we incrementally calculate the object coordinates and redraw the picture to give a feel of animation by using for loop.
- Suppose if we want to move a circle from left to right means, we have to shift the position of circle along x-direction continuously in regular intervals.
- The below programs illustrate the movement of objects by using for loop and also using transformations like rotation, translation etc.
- For windmill rotation, we use 2D rotation concept and formulas.

Program:

```
#include <stdio.h>
#include <conio.h>
#include <graphics.h>
#include <dos.h>
void main()
{
    clrscr
{
    int gd=DETECT,gm,i;
    initgraph(&gd,&gm,"C:\\TURBOC3\\BGI");
    for(i=0;i<=100;i++)
    {
        circle(319,219-i,20+i);
        circle(319,219+i,20+i);
    }
}</pre>
```

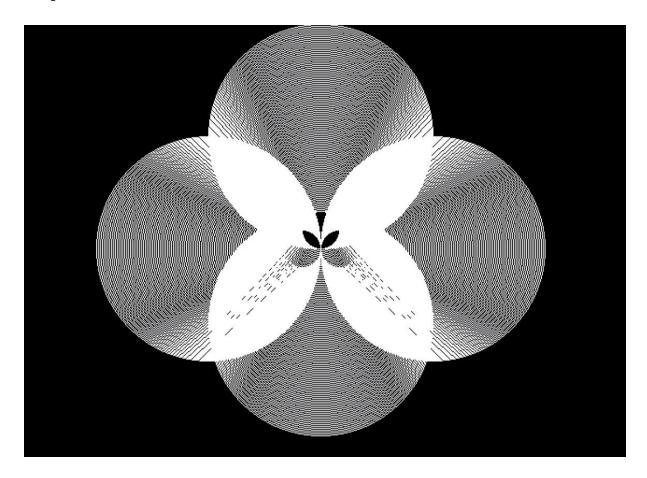


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```
circle(299-i,239,20+i);
circle(339+i,239,20+i);
delay(100);
}
getch();
}
```

Output:



Conclusion - Comment on :

- 1. Importance of story building
- 2. Defining the basic character of story
- **3.** Apply techniques to these characters



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