**Experiment No.-7**

**Student Name: PUJA KUMARI UID: 20BCA1448**

**Branch: BCA Section/Group: 20BCA5-B**

**Semester: 5th Date of Performance: 25.10.22**

**Subject Name: COMPUTER GRAHICS LAB Subject Code: 20CAP-316**

1. **Aim/Overview of the practical**: WAP to perform scaling on a circle.
2. **Task to be done:** To scale the circle.
3. **Concept Used:**

Initial coordinates of the object O = (Xold, Yold)

Scaling factor for X-axis = Sx

Scaling factor for Y-axis = Sy

New coordinates of the object O after scaling = (Xnew, Ynew)

This scaling is achieved by using the following scaling equations-

Xnew = Xold x Sx

Ynew = Yold x Sy

1. **Code**

**#include<stdio.h>**

**#include<graphics.h>**

**#include<conio.h>**

**int main()**

**{**

**int x,y,xx,yy,sx,sy,r;**

**int gd=DETECT,gm;**

**initgraph(&gd,&gm," ");**

**printf("Enter the x and y coordinates : ");**

**scanf("%d%d",&x,&y);**

**printf("Enter the radius : ");**

**scanf("%d",&r);**

**circle(x,y,r);**

**printf("Enter the scaling factor : ");**

**scanf("%d%d",&sx,&sy);**

**xx=x\*sx;**

**yy=y\*sy;**

**circle(xx,yy,r);**

**printf("\t\t\tSubmitted By : PUJA KUMARI (20BCA1448) \n");**

**getch();**

**closegraph();**

**}**

**5.Output**



