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**Subject : Java Lab**

**Group : G3**

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**LAB ASSIGNMENT 03**

**1. WAP to implement Mid Point Circle Drawing Algorithm.**

**Code :**

#include<conio.h>

#include<graphics.h>

#include<iostream>

int main()

{

int x,y,x\_mid,y\_mid,r,d;

int g\_mode,g\_driver=DETECT;

initgraph(&g\_driver,&g\_mode,(char\*)””);

std::cout<<”enter the coordinates=”;

std::cin>>x\_mid>>y\_mid;

std::cout<<”\n now enter the radius=”;

std::cin>>r;

x=0;

y=r;

d=l-r;

do

{

putpixel(x\_mid+x,y\_mid+y,1);

putpixel(x\_mid+y,y\_mid+x,1);

putpixel(x\_mid-y,y\_mid+x,1);

putpixel(x\_mid-x,y\_mid+y,1);

putpixel(x\_mid-x,y\_mid-y,1);

putpixel(x\_mid-y,y\_mid-x,1);

putpixel(x\_mid+y,y\_mid-x,1);

putpixel(x\_mid+x,y\_mid-y,1);

if(d<0) {

d+=(2\*x)+1;

}

else{

y=y-1;

d+=(2\*x)-(2\*y)+1;

}

x=x+1;

}while(y>x);

getch();

}

**Output:**

