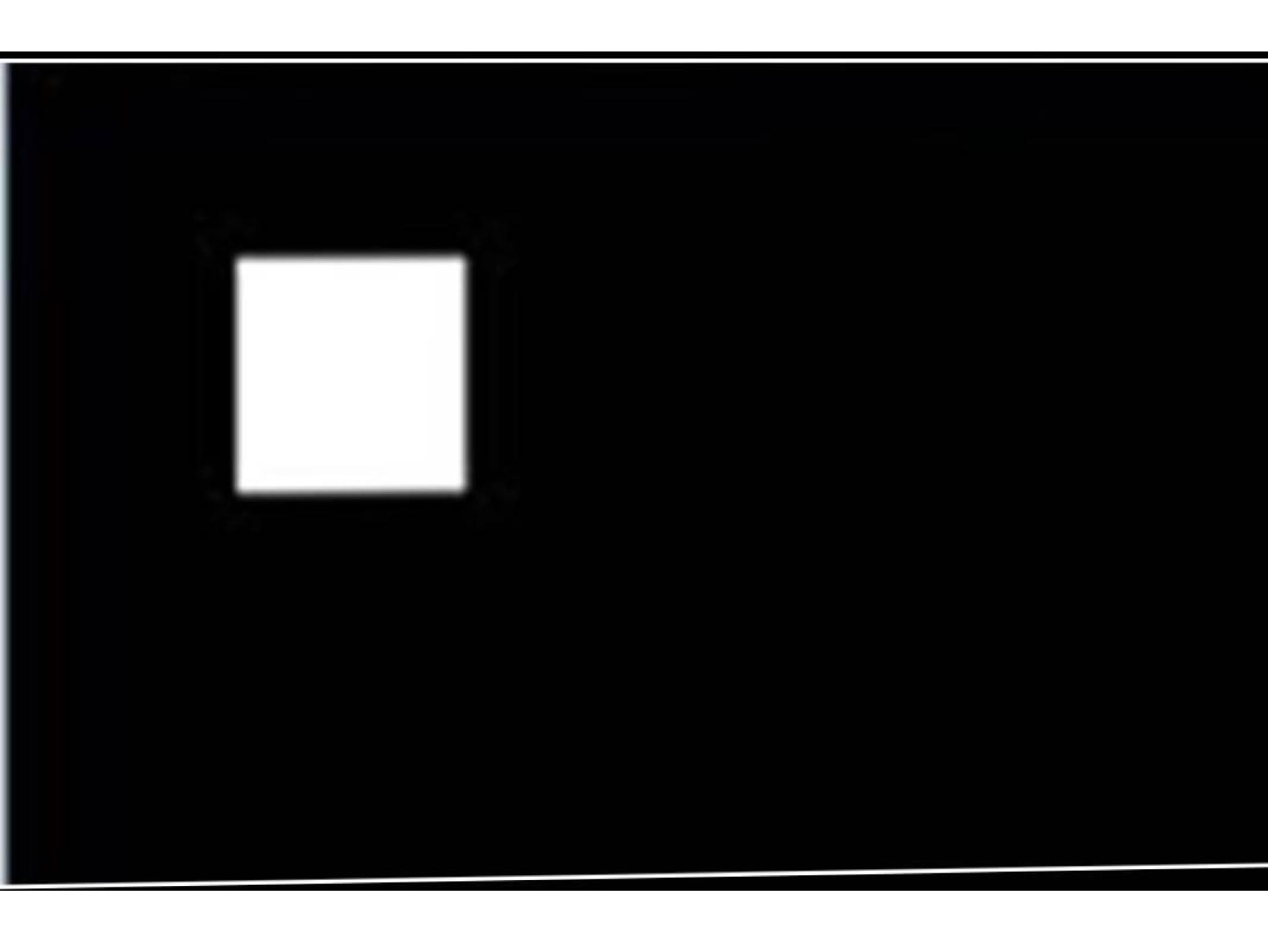
```
Nikhil Thapa
1121092 (12).
BCA 6(B)
  Ans-1
Algorithm:
 Step 1: Stant
 Step 2: Draw the wedangle using vuctangle function.
Step 3: Implement 8 connected floodfiel with the wordinate x
         putpixes (x1y,new cos);
       floodfill(x+1, y, old, newcol);
       floodfill (x-1, y, old, newcol)
       floodfill (x,y+1,010,newcol)
                                                    2127 poste
       f1000 fo11 (x, y+1, 010, newcol)
                                         I was son girt briguig
       -f1000 (6°11 (x+1, y+1, 01d, newcol)
       +1000 fill (x-1, y+1, old, newcol)
       f1000 f°11 (x+1, y-1,010, newcol)
                                       Share as protecting to the sail
      -floodfi 11 (x+1, y+1,010, newco1)
                                       Marcason, bis to within the
  Step4: - Stop.
                                       Marianabla perp. Laxilli About
```

```
# prwgram
                                                         - B (B 30 B) B
# include (staio. h)
                                                        - condition the
# include (graphics.h)
# include (conio. h)
                                                       Stepts steps
 Void floodfill Cintx, inty, intold, intrewcoll
     int about the Without betrance & two times with the words
     Cewwerd = getpixel(x,y);
                                       al toronal and terriated
                                   Hood fill star grant income
         (convert = = 01d)
                                   (lesses the partition of
                                  (1020120,610,4+4.20) 1106031-
       delay (5);
                                  (100001311/610 1+10K) 115 00017
       putpixel (x,y, newcol);
                                      ALIBRATE PULLER SING BOOK
     floodfill (x+1, y, old, newcol);
                                 flood fill (x-1, y, old, newcol);
                                   1000 1610 1510 1510 1510 1510 1000 15-
    floodfill(x,y+1,01d,newcol);
    Hood fi'll [x,y-1,010, newcol);
                                                    51-9943 - 5tops.
    f100dfill(x+1,9+1) old, newcol);
   +1000 fill(2+, y +1,01d, newcol);
   floodfill(x+1, y-1, old, newcol);
  frood fill (x-1, y-1, old, newcol):
```

```
void main ()
 intgd = Detect, gm;
 initgraph (2gd, 2gm,"");
 Mectangle (50,50,150,150);
 floodfill(70,70,0,15);
 gdzn(1;
close graph ();
   A CLASSIC PROPERTY.
```



Nikhil Thapa 1121092(12) BCA 6(B)

Computer Graphics & Animation.

Ans-3 Algorithm:-

Stepli- Staul-

Step 2: Declare p, q, x, y, x, d variables

p, q are coordinates of the certer of the circle

r is the viadius of circle.

Step 3: - Enter the value of 8.

Step 4: - Calculate d = 3-28

Step 5: - Initialize x =0 2 mosy-r

step 6; check if the whole circle is scan converted.

Stop

Step 7: - plot eight points by using concept of eight-way symmetry. The center is at (P, q). Convent octions pixel is (x,y).

putpixel (x+p, y+g) putpixel (y+p, x+q). purpixel (-y+p, xtq) putpixel (-x+p, y+2) putpixel (-x+p, -y+q) putpixel (-y+p, -x+q) pulpixel (y+p, -x+e) xd-dtern / Louis putpixel (x+p, -y-q). Step 8:- find location of next-pixels to be scanned. them d = d + 4x+6 incoment x=x+1 if d≥o Thon d = d + 4 (x-y) +10 increment x=x+1 decrement-y=y-1 Stepq:- Go to step6. Step10: Stop Atg.

```
# program to draw a circle using Breezehom's circle drawing
 algorithm.
 # include Kgraphics. ht
#include (stallib.h)
# include (stdio. h)
# include { conio. h}
#include (math.h)
         EightWaySymmetricPlot (intxc, intyc, intx, inty).
     pubpixel (x+xc, y+yc, RED);
    putpixel (x+xc, -y+yc, YELLOW);
   putpixel (-x+xc,-y+yc, GREEN);
   putpixel (-x+xc,y+yc, YELLOW);
  putpixel(y+xc,x+yc,12);
  putpixel (y+xc,x+yc, 14);
                                         Pagasasio
  putpixel (-y+xc,-x+yc,15);
  putpixel (-y+xc, x+yc, 6);
```

```
void Beresen ham wiche (int xcc, intyc, intx)
 int x=0, y=8, d=3(2*8);
 EightwaySymmetricPlot (xc, yc, x, y);
 while (xx=y)
                      " and 2019 2 1000 11 31 day or 21
   if-(d<=0)
   d=d+(4*x)+6°;
   d = d+(4*x)- (4*y)+10;
   x=x+1;
  EightWaySymmetricPlot-(xc, yc, x,y);
 int main (void)
 int xc, yc, 8, gdriver = DETECT, gmode, evenue code;
```

```
init graph (2 gebuuer, 2 gmode, " ");
erecarcode = graphresult ();
 If (everent code! = grok)
   printf ("Graphic evenous; % s/n", graphées or msg (evenoude));
  printf ("Beess any key to halt: ");
   getch();
  exit(1);
 printf ("Enter the value of sec and y c;");
  Scanf ("10/00%d", 2xc, 2yc);
 Printf ("Enter the value of readies:");
 Sconf ("0/00", 28)°,
  Bresenham Circle (xc,yc,x);
  getch ();
  closegraph ();
  return 0;
```

Enter the values of xc and yc :100 100
Enter the value of radius :50