```
//Prameet assignment
// Header file for midpoint_ circle algo
void midpoint_circle() {
  int i, r, x = 0, y, xc, yc;
  float d;
  clrscr();
  printf("\n Midpoint Circle \n");
  printf("Enter Radius\n");
  scanf("%d", & r);
  printf("Enter Center of circle\n");
  scanf("%d", & xc);
  scanf("%d", & yc);
  d = 1.25 - r;
  y = r;
  do {
    if (d < 0.0) {
      x = x + 1;
      d = d + 2 * x + 1;
    } else {
      x = x + 1;
      y = y - 1;
      d = d + 2 * x - 2 * y + 10;
    }
    putpixel(xc + x, yc + y, 5);
    putpixel(xc - y, yc - x, 5);
    putpixel(xc + y, yc - x, 5);
    putpixel(xc - y, yc + x, 5);
    putpixel(xc + y, yc + x, 5);
    putpixel(xc - x, yc - y, 5);
    putpixel(xc + x, yc - y, 5);
    putpixel(xc - x, yc + y, 5);
    delay(50);
  }
  while (x < y);
  getch();
}
```