School: SCOPE Semester: Win Sem 2021-22

Subject: Computer Graphics (Lab) Subject Code: CSE2006

Assignment 3.1

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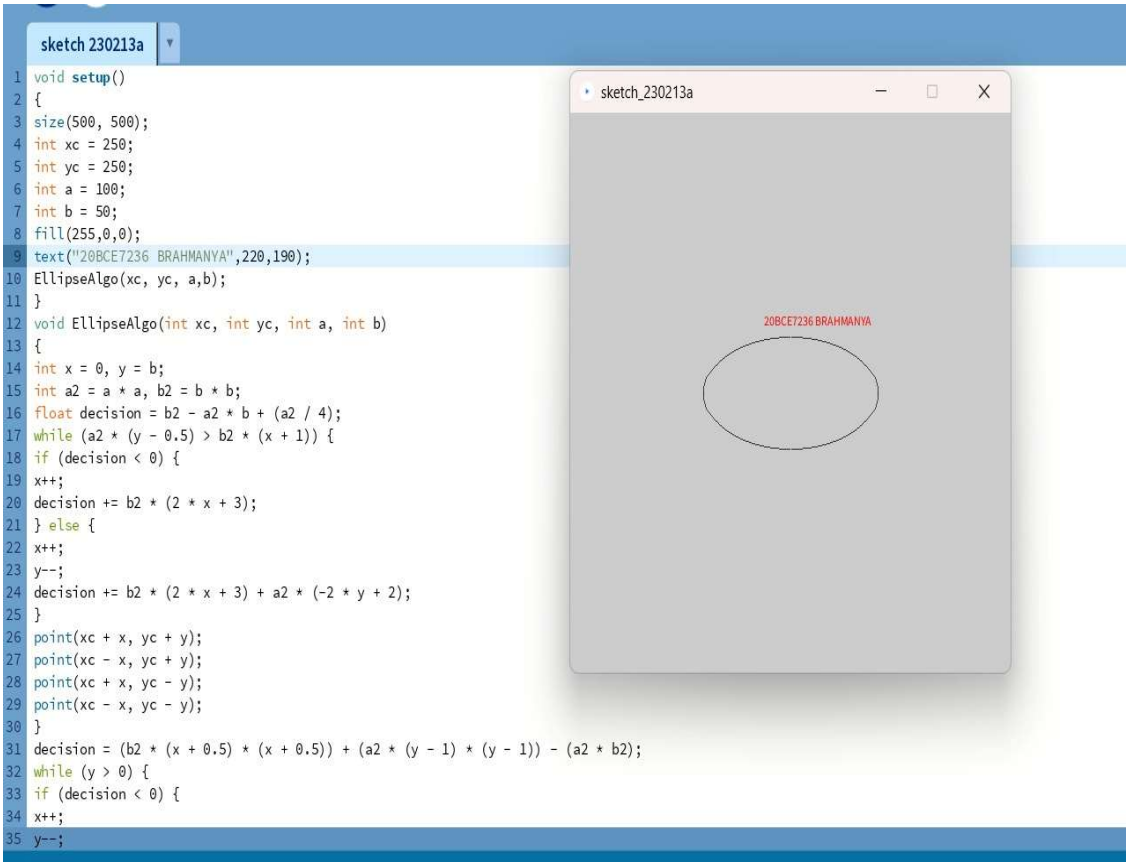
1. Write a program to implement Mid-point/Bresenham's Ellipse Drawing Algorithm.



```
decision += b2 * (2 * x + 3);
} else {
x++;
y--;
decision += b2 * (2 * x + 3) + a2 * (-2 * y + 2);
}
point(xc + x, yc + y);
point(xc - x, yc + y);
point(xc + x, yc - y);
point(xc - x, yc - y);
}
decision = (b2 * (x + 0.5) * (x + 0.5)) + (a2 * (y - 1) * (y - 1))
while (y > 0) {
if (decision < 0) {
x++;
y--;
decision = decision + b2 * (2 * x + 2) + a2 * (-2 * y + 3);
} else {
y--;
decision = decision + a2 * (-2 * y + 3);
}
point(xc + x, yc + y);
point(xc - x, yc + y);
point(xc + x, yc - y);
point(xc - x, yc - y);
}
}
y--;
```

Output: