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Section-> A
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Ans 1) #include stdis. h>
     #include < geophics. h>
      int main ()
       int nou (float num)
          gretwen num <0? num - 0:5: num + 0.5;
       int XI=100, X2=250, YI=100, Y2=250, step;
       int gd = DETECT.gm;
      float x, y, m;
      int dx = x2 - x1;
      int dy = 92- $ 41;
      m= dy/dx;
     y (dx>dy)
         Step = bc;
     else
       Step = dy;
    initgraph ( &gd, &gm,
   outlextxy (x1, y1, "A"));
  outlex txy (x2, 42, "8");
```

```
putpixel (x1, 41, BLUE);
 X = \times 1, y = y_1
 while (step>0)
    if (n<1)
        X= x+1;
         y = y + m
     if (m > =1)
      \chi = \chi + 1/m
     Y = Y + 1
     put pixel (rou(x), rou(y), BLUE);
    Step -- ;
getch();
```

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ALGORITHM
            · strocking Coordinates = x (x1, 41):
           · Ending Coordinates = (X2, 42)
     The points generation using DDA Algorithm involves the following
     Step-01-> Calculate DX, DY and M from the given input. We know
                that the slopes of a straight line M is given and.
         These parameters are culculated as -
        D)(=)(2-)(1
        ay = 42-41
          M = \Delta \frac{y}{\Delta x} = \frac{y}{m} = \frac{y}{2} - \frac{y}{2} \frac{y}{(x^2 - x)}
   Step-02-) Find the numbers of steps or points in between the
              stanting and entity co-ordinates
            if (absolute (3) > absolute (34))
           steps = absolute(OX);
           steps = absolute(29);
Step-03 -> Suppose the wovert point is (Xp, Yp) of the next
            point is (SCP+1, SP+1)
          find the next by following the below thoree coses:-
                              -> Xp+1 = groundelf (1+Xp)
                                 Spt) = ground off (M+Xe)
Those cose
                              =\sqrt{\chi_{p+1}} = \text{snowdeff}(1+)(p)
                                 Xp+1 = groundoff 1+ yp
                                Xp+1 = soundaff (Vm + Xe)
                   ase 203
                                Spt1= groundy (1+ Sp)
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Step 04-> Keep suspenting step-03 will end point is suspended or the number of generated new points including the starting and ending points equals to the step count.

Seen's Tarion Colours or appeal

