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BY - TANISHA SINGHAL(2K20/A5/14)
            AKKSHITA SWAIN (2K20/A5/23)
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
int width=20;
int height=20; // global variable as we are using in different functions for
the same variables value
int x,y;
int fruitX,fruitY;
int score;
int gameover;
int flag;
int tailX[100];
int tailY[100];
int countTail=0;
void set_up() // to set the initial value of every variable
   gameover=0;
   x=width/2;
   y=height/2;
   label1:
   fruitX=rand()%20; // rand function is used for getting fruit at random po
sitions wihtin those boundaries
   if(fruitX==0)
   goto label1 ;  // goto function is used to jump to a particular functi
on (label)
   label2:
   fruitY=rand()%20 ;
   if(fruitY==0)
   goto label2 ;
```

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void draw() // fucntion to make boundaries
    int i,j,k;
    system("cls"); // cls is used so that to clear the previous code(screen)
and we get a clear boundaries
    for(i=0;i<width;i++)</pre>
         for(j=0;j<height;j++)</pre>
        {
         if(i=0||i==height-1||j==0||j==width-1)
            printf("#");
         else
             if(i==x && j==y)
                printf("o");
             else if(i==fruitX && j==fruitY)
                printf("F");
             else
            { int ch=0;
                for (k=0;k<countTail;k++)</pre>
                    if(i==tailX[k] && j==tailY[k])
                         printf("o");
                         ch=1;
                if(ch==0)
                printf(" ");
```

```
printf("\n");
         printf("score=%d",score);
void input(){
   if(kbhit())
       switch(getch())
        case 'a':
           flag=1;
            break;
        case 's':
           flag=2;
           break ;
        case 'w':
           flag =3;
           break;
        case 'z':
           flag=4;
           break;
           gameover=1 ;
    }
void Make_logic()
    int prevX=tailX[0];
    int prevY=tailY[0];
    int prev2X ;
    int prev2Y ;
   tailX[0]=x ;
   tailY[0]=y ;
```

```
for(i=1;i<countTail;i++)</pre>
    prev2X=tailX[i];
    prev2Y=tailY[i];
    tailX[i]=prevX;
    tailY[i]=prevY;
    prevX=prev2X;
    prevY=prev2Y;
switch(flag)
    case 1:
       y-- ;
       break;
    case 2:
       y++ ;
       break;
    case 3:
       break ;
    case 4:
       X++ ;
       break ;
    default :
      break ;
}
if (x<0||x>width||y<0||y>height)
    gameover=1;
    for(i=0;i<countTail;i++)</pre>
        if(x==tailX[i] && y==tailY[i])
        gameover=1;
    }
if (x==fruitX && y==fruitY)
    label3:
```

```
if(fruitX==0)
     goto label3 ;
     label4:
     fruitY=rand()%20 ;
     if(fruitY==0)
     goto label4 ;
     score+=10 ;
     countTail++ ;
int main()
    label5 :
    set_up();
    while(!gameover)
        draw();
        input();
        Make_logic();
        for(int m=0;m<1000;m++)</pre>
             for(int n=0;n<10000;n++)</pre>
        }
        for(int m=0;m<1000;m++)</pre>
             for(int n=0;n<10000;n++)</pre>
```

```
for(int m=0;m<10000;m++)
{
    for(int n=0;n<10000;n++)
    {
        }
    }
    for(int m=0;m<10000;m++)
    {
        for(int n=0;n<10000;n++)
        {
        }
    }
}

printf("\n press Y to continue again:");
scanf("%c" , &c);

if(c=='y'||c=='Y')
    goto label5;

return 0;
}</pre>
```