

1. Write a program to display equation of a line in the form $ax+by=c$ for $a=5$, $b=8$, $c=18$.

Solution:

```
#include<stdio.h>
int a=5;
int b=8;
int c=18;
int main (void)
{
printf("\n\n");
printf("%dx+%dy=%d",a,b,c);
printf("\n\n");
return 0;
}
```

OUTPUT:

5x+8y=18

2. The line joining the point (2,2) and (5,6) which lie on the circumference of the circle is the diameter of circle. Write a program to compute area and perimeter of circle.

Solution:

```
#include<stdio.h>
#define pi 3.1416
void main ()
{
float x1=2,x2=5,y1=2,y2=6,d,area,perimeter;
d=sqrt(((x2-x1)*(x2-x1)+(y2-y1)*(y2-y1)));
area=(pi*(d*d))/4;
perimeter=pi*d;
printf("The value of area is=%f\n",area);
printf("The value of perimeter is=%f\n",perimeter);
}
```

OUTPUT:

The value of area is=19.635000

The value of perimeter is=15.708000