Problem exercise no 1.1&1.2: **Coding of the programme:**

```
#include<stdio.h>
void main()
printf("----\n");
printf("I First line: Humayun Kabir I\nI Second line: Sector#10, Road#11, House#18
I\nI Third line:Uttara, Dhaka-1230I\n");
printf("-----"):
```

Output:

Problem exercise no. 1.3: Coding of the programme:

```
#include<stdio.h>
void main()
printf("*\n* *\n* * *\n* * * ");
```

Output:

* * * * * * *

Problem exercise no:1.4 **Coding of the problem:**

```
#include<stdio.h>
void main()
printf("a>>----->b");
Output:
```

a>>----->b

Problem exercise no:1.5 Coding of the problem:

#include<stdio.h> #define pi 3.14159

```
void main()
float r,A;
printf("\n\tENTER THE RADIUS OF A CIRCLE=");
scanf("%f",&r);
A=pi*r*r;
printf("\n\n\tArea=%f sqr unit",A);
Output:
ENTER THE RADIUS OF A CIRCLE=2
Area=12.566360 sqr unit
Problem exercise no:1.6
CODING:
#include<stdio.h>
void main()
int b,c;
for(b=1;b<=10;b++)
c=5*b;
printf("\n\t\% d*\% d=\% d\n",5,b,c);
}
Output:
5 \times 1 = 5
5 \times 2 = 10
5 \times 3 = 15
5 \times 4 = 20
5 \times 5 = 25
5 \times 6 = 30
5 \times 7 = 35
5 \times 8 = 40
5 \times 9 = 45
5 \times 10 = 50
```

Problem exercise no:1.7

Coding of the programme:

```
#include<stdio.h>
void add();
void sub();
```

```
void main()
add();
sub();
}
void add()
printf("\hdotn d+\hdotn d=\hdotn d",20,10,30);
void sub()
printf("\n\t\%\d-\%\d-\%\d-\%\d",20,10,10);
Output:
       20+10=30
       20-10=10
Problem exercise no:1.8
Coding:
#include<stdio.h>
void main()
int a,b,c,x;
printf("Enter values of a,b&c\n");
scanf("%d%d%d",&a,&b,&c);
x=a/(b-c);
printf("result=%d",x);
Output:
a)
Enter values of a,b&c
250
85
25
result=4
b)NO OUTPUT
```

Problem exercise no:1.9 (b)

Coding:

```
#include<stdio.h>
void main()
float a,F,C;
```

```
printf("ENTER TEMPERATURE IN FARENHITE\n");
scanf("%f",&F);
a=5*(F-32);
C = a/9;
printf("\nIn celsius scale=%f",C);
Output:
ENTER TEMPERATURE IN FARENHITE
10
In Celsius scale=-12.222222
Problem exercise no:1.9 (a)
Coding:
#include<stdio.h>
void main()
float a.F.C:
printf("ENTER TEMPERATURE IN CELSIUS\n");
scanf("%f",&C);
a=(9*C)/5;
F=a+32:
printf("\nIn farenhite scale=%f",F);
Output:
ENTER TEMPERATURE IN CELSIUS
In frenhite scale=50.00000
Problem exercise no: 1.10
Coding of the problem:
#include<stdio.h>
#include<math.h>
void main()
float a,b,c,S,A;
printf("\n\tENTER THE THREE SIDES OF A TRIANGLE=");
scanf("%f%f%f",&a,&b,&c);
S=(a+b+c)/2;
A = sqrt(S*(S-a)*(S-b)*(S-c));
printf("\n\tArea of the triangle=%f",A);
Sample output:
   ENTER THE THREE SIDES OF A TRIANGLE=10
12
14
   Area of the triangle=58.787754
```

Problem exercise no:1.11

```
Coding:
#include<stdio.h>
#include<math.h>
void main()
float D,x1,x2,y1,y2;
printf("ENTER CO-ORDINATES x1,x2,y1,y2=\n");
scanf("%f%f%f%f",&x1,&x2,&y1,&y2);
D=sqrt((x1-x2)*(x1-x2)+(y1-y2)*(y1-y2));
printf("Result=%f",D);
Output:
ENTER CO-ORDINATES x1,x2,y1,y2=
4
8
5
Result=3.605551
Problem exercise no:1.12
Coding:
#include<stdio.h>
#include<math.h>
#define pi 3.14159
void main()
float r,x1,x2,y1,y2,A;
x1=0;
x2=0:
y1=4;
y2=5;
r = sqrt((x1-x2)*(x1-x2)+(y1-y2)*(y1-y2));
A=pi*r*r;
printf("Result=%f",A);
Output:
Result=3.14159
Problem exercise no:1.13
Coding:
#include<stdio.h>
#include<math.h>
#define pi 3.14159
void main()
{
```

```
float D,r,x1,x2,y1,y2,A;
x1=2;
x2=2;
y1=5;
y2=6;
D=sqrt((x1-x2)*(x1-x2)+(y1-y2)*(y1-y2));
r=D/2;
A=pi*r*r;
printf("Result=%f",A);
Output:
Result=0.785398
Problem exercise no:1.14
Coding:
#include<stdio.h>
void main()
{ int a,b,c;
a=5;
b=8;
c=18:
printf("\%dx+\%dy=\%d",a,b,c);
Output:
5x + 8y = 18
Problem exercise no:1.15
Coding:
#include<stdio.h>
void main()
{ float x,y,sum,difference,product,division;
printf("ENTER TWO NUMBERS=\n");
scanf("%f%f",&x,&y);
sum=x+y;
difference=x-y;
product=x*y;
division=x/y;
printf("\n\tSum=%f\tDifference=%f\n\n\tProduct=%f\tDivision=%f",sum,difference,product,divi
sion);
Output:
ENTER TWO NUMBERS=
10
5
Sum=15.000000
                           Difference=5.000000
Product=50.000000
                           Division=2.000000
```

Assignments:

1. Write a program that will print your Name, Id and Program like following format.

Name: Your Name

Id: Your Id

Program: BCSE

- 2. Write a program to find the area of **Rectangle.**
- 3. Write a Program to find $S = ut + \frac{1}{2}at^2$ where the value of **a**, **u** and **t** are given.
- 4. Write a program to print the following format.

5. Write a program to print the following format.

>>----->

<-----<<