Practical-1: Basic input/output Operation

1.Program to read two integer and two floating point numbers

```
#include<stdio.h>

#include<conio.h>

int main()

{

   int n1,n2;

   float f1,f2;

   printf("enter the two integer numbers");

   scanf("%d%d",n1,n2);

   printf("enter the two floating numbers");

   scanf("%f%f",f1,f2);

   getch();

   return 0;

}
```

2. Program to accept the marks of 5 subjects and finds the sum and percentage marks obtained by the student.

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
int main()
{
   int m1,m2,m3,m4,m5;
   float sum,per;
   printf("enter the 5 subject marks");
   scanf("%d%d%d%d%d",&m1,&m2,&m3,&m4,&m5);
   sum=(m1+m2+m3+m4+m5);
   per=sum/5;
   printf("print sum is %f\n",sum);
   printf("print percentage is %f",per);
   getch();
   return 0;
}
```

3. Program to calculate the simple interest and compound interest (The principal, amount, Rate of interest and time are entered through keyboard).

```
include<stdio.h>
#include<conio.h>
#include<math.h>
int main()
{
   float p,r,t,si,ci;
   printf("enter the principal,rate and interest");
   scanf("%f%f%f",&p,&r,&t);
   si=(p*r*t)/100;
   ci=p*(pow(1+r/100,t)-1);
   printf("simple interst is %f",si);
   printf("compound interst is %f",ci);
   getch();
   return 0;
}
```

4. Program to calculate the area of circumference of a circle.

```
#include<stdio.h>

#include<conio.h>

#include<math.h>

int main()

{

   int r;

   float area,cir;

   printf("enter the radies");

   scanf("%d",&r);

   area=3.14*r*r;

   cir=2*3.14*r;

   printf("area and circumference is %f %f",area,cir);

   getch();

   return 0;

}
```

5. Program that accept temperature in Centigrade and converts into Fahrenheit using the formula C/5= (F-32)/9.

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
int main()
{
   float t,f;
   printf("enter the value of temprature");
   scanf("%f",&t);
   f=((9*t)/5) +32;
   scanf("farnaheit is %f",f);
   getch();
   return 0;
}
```

6.Program that swaps values of two variable using 3rd variable.

```
#include<stdio.h>
#include<conio.h>
int main()
{
   int var1,var2,temp;
   printf("enter two integers values");
   scanf("%d%d",&var1,&var2);
   printf("before swapping firstvariable=%d second variable=%d",var1,var2);
   temp=var1;
   var1=var2;
   var2=temp;
   printf("after swapping first variable=%d second variable =%d",var1,var2);
   getch();
   return 0;
}
```

7. Progarm that swaps the values of two variable without using a 3rd variable.

```
#include<stdio.h>

#include<conio.h>

int main()

{

   int var1,var2;

   printf("enter the two integers values");

   scanf("%d%d",&var1,&var2);

   printf("before swap first var=%d second var=%d",var1,var2);

   var1= var1+var2;

   var2=var1-var2;

   var1=var1-var2;

   printf("after swap first var=%d second var=%d",var1,var2);

   getch();

   return 0;

}
```

8. Program to Calculate and print the area of triangle, where the three sides of the triangle is given as input.

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
int main()
{
   int x,y,z;
   float area,s;
  printf("enter the three sides of tringle");
  scanf("%d%d%d",&x,&y,&z);
  s=(x+y+z)/2;
  area=pow(s*(s-x)*(s-y)*(s-z),0.5);
  printf("area is %f",area);
  getch();
  return 0;
}
```