

Practical-1:Basic Input/Output Operation

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

```
#include<stdio.h>

#include<conio.h>

void main()

{

int a=2,b=5;

float x=2.5,y=3.9;

clrscr();

printf(" %d,%d\n",a,b);

printf("%f,%f",x,y);

getch();

}
```

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

```
#include <stdio.h>

int main() {

    int s1,s2,s3,s4,s5,sum,percentage;

    printf("enter the marks of 5 subjects:");

    scanf("%d%d%d%d%d",&s1,&s2,&s3,&s4,&s5);

    sum=s1+s2+s3+s4+s5;

    percentage=sum/5;

    printf("sum=%d",sum);

    printf("percentage=%d",percentage);

}
```

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>

int main() {
    int SI,CI,A,T,R,P;

    printf("enter the value of principal,amount,rate of interest,time");

    scanf("%d%d%d%d",&P,&A,&R,&T);

    SI=(P*R*T)/100;

    CI=A-P;

    printf("simple interest:%d,compund interest:%d\n",SI,CI);
}
```

4. program to calculate the area and circumference of circle.

```
#include <stdio.h>

int main() {
    float A,C,r,pi=3.14;

    printf("enter the value of r:");

    scanf("%f",&r);

    A=pi*r*r;

    C=2*pi*r;

    printf("Area:%f",A);

    printf("Circumference:%f",C);

    return 0;
}
```

5. Program to accept temperature in centigrade and converts into Fahrenheit using the formula $c/5=(f-32)/9$.

```
#include <stdio.h>

void main() {

    float F,C;

    printf("entered the temperature in centigrade:");

    scanf("%f",&C);

    F=(C*9)/5+32;

    printf("temperature in fahrenheit:%f",F);

}
```

6. Program to swap values of two variables using a third variable.

```
#include <stdio.h>

void main() {

    int a,b,temp;

    printf("enter the value of a and b:");

    scanf("%d%d",&a,&b);

    temp=a;

    a=b;

    b=temp;

    printf("value of a and b after swapping:%d %d\n",a,b);

}
```

7. Program that swap the values of two variable without using a third variable.

```
#include <stdio.h>
void main() {
    int a,b;
    printf("enter the value of a and b:");
    scanf("%d%d",&a,&b);
    a=a+b;
    b=a-b;
    a=a-b;
    printf("after swap a=%d b=%d\n",a,b);
}
```

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

```
#include <stdio.h>
#include<math.h>
void main() {
    int a,b,c,s;
    float A;
    printf("enter the value of three sides of triangle:");
    scanf("%d%d%d",&a,&b,&c);
    s=(a+b+c)/2;
    A=sqrt((s)*(s-a)*(s-b)*(s-c));
    printf("Area:%f",A);
}
```