1. WAP to declare of all Data types read the values and display them.

```
#include<stdio.h>

int main()

{

   char c='A';

   int a=37;

   float b= 370.5;

   double x=8000.0;

   printf("the character is %c \n", c);

   printf("the intiger is %d\n",a);

   printf("the floating is %f \n ",b);

   printf("the value of double is %f \n",x);

return 0;

}
```

2. WAP to read the distance between two cities (in km) and display the distance in meters, feet, inches and centimeters.

```
#include<stdio.h>

int main()

{

float farh;

float centi;

printf("the value of farhneith\n");

scanf("%f",&farh);

centi= 0.55555*(farh-32);
```

```
printf("the value of cenigarade %f \n",centi);

return 0;

}
```

3.WAP to read marks obtained by a student in five subjects. Read the full max of each subject as well. Print the percent scored by the student.

```
#include<stdio.h>


int main()

{

   float dis,meter,feet,inch , centimeter;

   printf("the distance between two cities in km \n");

   scanf("%f",&dis);

   meter = dis*1000;

   feet = dis *3200.81;

   inch = dis* 39970.1;

   centimeter= dis *100000;

   printf("the value in meter is %f \n",meter);

   printf("the value in feet is %f\n",feet);

   printf("the value in inch is %f \n",inch);

   printf("the value in centi is %f \n",centimeter);

return 0;

}
```

4.WAP to read temperature in Fahrenheit and convert it into centigrade. C=5/9(F-32).

```
#include<stdio.h>


int main()

{

float eng;

float physics;

float math;

float c;

float electrical;

float sum, percent;

printf("the mask obtained in engineering is  ");

scanf("%f",&eng);

printf("the mask obtained in physics is  ");

scanf("%f",&physics);

printf("the mask obtained in math is ");

scanf("%f",&math);

printf("the mask obtained in c is ");
```

```
scanf("%f",&c);

printf("the mask obtained in electrical is ");

scanf("%f",&electrical);

sum= eng+ math +physics +c+electrical;

percent=(sum/320)*100  ;

printf("the percent is \n %f", percent);

return 0;

}
```

5.The length and width of a rectangle and radius of a circle or input through the keyboard. WAP to calculate the area & perimeter of the rectangle and the area & circumference of the circle.

```
#include<stdio.h>


int main()

{

   float length, breath, radius;

   float area,peremeter ,areaC;

   printf("the length of a rectangle is ");

   scanf("%f",&length);

   printf("the breath of a rectangle is ");

   scanf("%f",&breath);

   printf("the radius of a circle is ");
```

```
   scanf("%f",&radius);
   area=length*breath;
   peremeter=2*(length+breath);
   areaC= 3.141*(radius)*radius;
   printf("the area of rectangle is %f \n",area);
   printf("the peremeter of rectangle %f \n",peremeter);
   printf("the area f radius is %f \n",areaC);
   return0 ;
}
```

6.WAP to read two numbers and swap (interchange) their values.

```
#include<stdio.h>

int main()
{
   int  a=10;
   int b=20;
     float temp=a;
   a=b;
   b=temp ;
   printf("the value of a is\n  %d",a);
   printf("the value of b is  \n %d",b);
   return 0;
}
```

7.If a 5 digit number is input through the keyboard, i.Calculate the sum of its digits.ii.Reverse the numberiii.Some the first and last digit.

```
#include<stdio.h>


int main()

{

   int num,sum=0,count;

   printf("enter a 5 digit number \n");

   scanf("%d",&num);


   count=num%10;

   num=num/10;

   sum=sum+count;


    count=num%10;

   num=num/10;

   sum=sum+count;


 count=num%10;

   num=num/10;

   sum=sum+count;


 count=num%10;

   num=num/10;
```

```
   sum=sum+count;


 count=num%10;
   num=num/10;
   sum=sum+count;


 printf("the value of sum %d \n",sum);


//the reverse order code is


int sn, rev=0;
int nums;
printf("the number for reverse order is\n");
scanf("%d",&nums);


//step 1
sn=nums % 10;
rev= rev * 10 +sn;
nums=nums /10;


//step 2
sn=nums % 10;
rev= rev * 10 +sn;
nums=nums /10;
```

```
//step 3

sn=nums % 10;

rev= rev * 10 +sn;

nums=nums /10;


//step 4

sn=nums % 10;

rev= rev * 10 +sn;

nums=nums /10;


//step 5

sn=nums % 10;

rev= rev * 10 +sn;

nums=nums /10;


printf("the number in reverse order is %d\n",rev);


 return 0;

}
```

8.WAP to solve the polynomial equation of order 5. X5+10x4+8x3+4x

```
#include<stdio.h>

int main()
{
int x,f;
```

```
printf("the vlaue is ");
scanf("%d",&x);
f=x*x*x*x*x+10*x*x*x*x+5*x*x*x*+10;
printf("the value of in sum is %d",f);
return 0;

}
```

9.WAP to read two numbers and find the quotient and remainder.

```
#include<stdio.h>


 int main()

 {

   int a,b;

   int quotient,reminder;

   printf("the divider is \n");

   scanf("%d",&a);

   printf("the divident is \n");

   scanf("%d",&b);

   quotient=b/a;

   reminder=b%a;

   printf("the quotient is %d \n",quotient);

   printf("the reminder is %d \n",reminder);

   return 0;


 }
```

10.WAP to read time in total seconds and convert it into hr,min,sec.

```
#include<stdio.h>


int main()
```

```
{
    float s,h,m;
    printf("the value in sec \n");
    scanf("%f",&s);
    h=s /3600;
    m=s/60;
    s=s;
    printf("the value in hour =%f \n",h);
    printf("the value in minute =%f \n",m);
    printf("the value in sec is =%f\n",s);
    return 0;

}
```