WAP to read a character from keyboard and convert it into uppercases if it is lowercase and vice versa.

```
#include<stdio.h>
#include<conio.h>
int main()
{
       char c;
       clrscr();
       printf("Enter character:");
       scanf(" %c",&c);
       if(c>=65&&c<90)
       {
              printf("\nThe character is upper case");
              printf("\nThe equivalent lowercase is%c",c);
       else if(c>97&&c<122)
       {
              printf("\nThe character is lowercase ");
              c=c-32;
              printf("\n The equvalent uppercase is %c",c);
       }
       else
              printf("Invalid character");
       getch();
       return 0;
}
```

WAP to read the values of coefficient a, b, c of a quadratic equations ax2+bx+c=0 and find roots of equations (real or imaginary, complex whether they may be supplied by user)

```
#include<stdio.h>
#include<conio.h>
#include<math.h>
void main()
{
       float a,b,c,x1,x2,d,real,img; clrscr();
       printf("Enter the value of a,b,c in ax^2+bx+c\t");
       scanf("%f%f%f",&a,&b,&c);
       d=b*b-4*a*c;
       if(d<0)
       {
              printf("Roots are imaginary");
              d=sqrt(fabs(d)); //calculate absolute value
              real=-b/(2*a);
              img=d/(2*a);
              printf("x1=%.2f+i%.2f",real,img);
              printf("x2=%.2f+i%.2f",real,-img);
       }
       else
       {
              printf("The roots are");
              d=sqrt(d);
              x1=(-b+d/(2*a)); x2=(-b-d)/(2*a);
              printf("x1=%.2f\tx2=%.2f",x1,x2);
       }
       getch();
}
```

A bank has decided to provide interest rate in fixed deposit account as: 5% for less than or equal to 2 yrs 6% for greater than 2 yrs and less than equal to 5yrs and 7% for more than 5 yrs . Write a program to read principle, time period from keyboard and calculate that will be after specified period according to policy.

```
#include<stdio.h>
#include<conio.h>
void main()
{
       float p,t,r,i,amount;
       clrscr();
       printf("Enter the value of Principal time period in yrs\t"); scanf("%f
       %f",&p,&t);
       if(t<2)
              r=5;
       else if(t>2&&t<=5)
              r=6;
       else if(t>5)
              r=7;
       else
              r=0;
       i=(p*t*r)/100;
       amount=p+i;
       printf("The amount will be \t%f",amount);
       getch();
}
```

A bank has introduced in incentive polity. A bonus of 2% of the balance is given to everyone, irrespective of their balances and 5% is given to female account holder if their balance is more than rs 5000. Write a program to represent this polity and calculate balance after bonus.

```
#include<stdio.h>
#include<conio.h>
void main()
{
       float balance;
       char gender;
       clrscr();
       printf(" Old balance:\t");
       scanf("%f",&balance);
       printf("Enter gender M/F");
       scanf(" %c",&gender);
       if(gender=='f' || gender=='F')
       {
              if(balance>5000)
                    balance=balance+0.05*balance;
              else
                    balance=balance+0.02*balance;
       else
              balance=balance+0.02*balance;
       printf("The balance is%f",balance);
       getch();
}
```