```
//create aprogram to check whether an year is leap or not
#include<stdio.h>
int main()
  int n;
  printf("enter the number");
  scanf("%d",&n);
  if((year\%4==0 \&\& year\%100!=0)||(year\%400=0))
     printf("%d is a leap year\n",year);
  }
  else{
     printf("%d is not leap year\n",year);
  }
  return 0;
}
// create a program for calculator using switch case
#include<stdio.h>
int main()
{
  char operator;
  float num1,num2,result;
  printf("enter an operator(+,-,*,/):");
  scanf("%c",&operator);
  printf("enter two operands");
  scanf("%f %f",&num1,&num2);
  switch(operator)
  {
  case '+': result=num1+num2;
  printf("%2f+%2f=%2f\n",num1,num2,result);
  break;
  case '-':result=num1-num2;
  printf("%2f-%2f=%2f\n",num1,num2,result);
  break;
  case '*':result=num1*num2;
  printf("%2f*%2f=%2f\n",num1,num2,result);
  break;
  case '/':
     if(num2=0)
```

```
{
     printf("error:division by zero\n");
  }
  else{
     printf("\%2f/\%2f=\%2f\n",num1,num2,result);
  }
  break;
default:
printf("invalid operator");
}
return 0;
```

}

{

//Aassume that you have an account balance of rs.100000. Ask the user says deposite ask amount to be deposited and print amount deposited and balance in the account.if user says withdraw ask amount to be withdraw and check whether amount is less than account balance if yes print amount withdrawn and balance, else print insufficet funds. #include<stdio.h>

```
int main(void)
  int balance=100000, withdraw, deposite;
  operation=input("do you want to deposite or withdraw?(enter deposited or withdraw)")
  if(operation=="deposite")
     float(input("enter the amount to deposite :"));
     balance+=deposite amount
    printf("amount deposited :%f",deposited amount);
    printf("new account balance :%f",balance);
  }
  else if{(operation=="with draw")}
  float(input("enter the amount to be withdraw:"))withdraw amount<=balance;
  {
     printf("withdrawn amount:%f",withdraw amount)
     printf("new account balance :2%f",balance);
       }
       else;
     {
       printf("insufficent=");
     }
     else;
```

```
printf("invalid");
     }
}
//program to calculate simple interest
#include<stdio.h>
int main()
{
  float principal, rate, time, interest;
  printf("enter principal,rate,and time");
  scanf("%f %f %f",&principal,&rate,&time);
  interest=(principal*rate*time)/100;
  printf("simple interest=%.2f\n",interest);
  return 0;
}
//write a program to display the grade base on marks.
#include<stdio.h>
int main(){
  int marks;
  printf("enter your marks");
  scanf("%d",&marks);
  if(marks > = 90){
     printf("grade:A\n");
  }
  else if(marks>=75){
     printf("grade:B\n");
  }
  else if(marks>=50){
     printf("grade:C\n");
  }
  else{
    printf("grade:F\n");
  }
  return 0;
}
```