```
#include<stdio.h>
#include<stdlib.h>
int fnRightShift(unsigned int , unsigned int);
**************************
*****
*Function
                  main
*Input parameters:
                  no parameters
*RETURNS
                  0 on success
**************************
******/
int main(void)
      unsigned int iVal, iNewVal, iNum;
      int iChoice;
);
      printf("\n*\tPROGRAM TO IMPLEMENT CIRCULAR RIGHT SHIFT\t*
\n");
do
            printf("\nEnter the value to be rotated\n");
            scanf("%u",&iVal);
            printf("\nEnter the number of positions by which the
value has to be rotated\n");
            scanf("%u",&iNum);
            iNewVal = fnRightShift(iVal, iNum);
            printf("\nThe value %u after right rotation by %u
bits = %u\n",iVal,iNum,iNewVal);
            printf("\nPress 1 to continue or any other key to
exit....\n");
            scanf("%d",&iChoice);
      }while(1 == iChoice);
      return 0;
}
****************************
*****
```

```
: fnRightRot
*Function
*Description
                      : Function to perform Right Circular shift
by the number of bits specified
*Input parameters
       unsigned int iX - value to be rotated
       int iN

    no of positions by which rotation has to

*
be performed
                       : resultant value after rotation has been
*RETURNS
performed
************************
******/
int fnRightShift(unsigned int iX , unsigned int iN)
       unsigned int iShift;
       int i;
       iShift = 1 << 31;
       for(i = 0; i < iN; i++)
               /*IF iX HAS AN 1 AT THE RIGHTMOST BIT IT HAS TO
APPEAR AT THE LEFT END AFTER ROTATION*/
               if( iX % 2 )
                       iX = iX >> 1;
                       iX |= iShift;
               }
               else
                       /*OTHERWISE SIMPLY APPLY RIGHT SHIFT*/
               {
                       iX = iX >> 1;
               }
       return iX;
}
```