WarmpUp1)

#include<stdio.h>

#include<stdlib.h>

int main()

{

FILE \*readPtr;

float temp;

readPtr = fopen("C:\\Users\\smutlu\\Desktop\\value.txt","r");

if(readPtr==NULL)

{

printf("Error, the file cannot open\n");

exit(1);

}

fscanf(readPtr,"%f",&temp);

printf("%f\n",temp);

fclose(readPtr);

return 0;

}

WarmUp2)

#include<stdio.h>

#include<stdlib.h>

int main()

{

FILE \*readPtr;

float temp;

readPtr = fopen("C:\\Users\\smutlu\\Desktop\\value.txt","r");

if(readPtr==NULL)

{

printf("Error, the file cannot open\n");

exit(1);

}

while(fscanf(readPtr,"%f",&temp)!=EOF)

printf("%f\n",temp);

fclose(readPtr);

return 0;

}

WarmUp3)

#include<stdio.h>

#include<stdlib.h>

int main()

{

FILE \*writePtr;

int temp;

writePtr = fopen("number.txt","w");

if(writePtr==NULL)

{

printf("Error\n");

exit(1);

}

while(scanf("%d",&temp)==1)

fprintf(writePtr,"%d\n",temp);

fclose(writePtr);

return 0;

}

#include<stdio.h>

#include<stdlib.h>

int main()

{

FILE \*writePtr, \*readPtr;

int temp, counter=0,i;

if((readPtr=fopen("value.txt","r"))==NULL)

{

printf("Error\n");

exit(1);

}

if((writePtr=fopen("integers.txt","w"))==NULL)

{

printf("Error\n");

fclose(readPtr);

exit(1);

}

//Read from the file and counts how many number read

while(fscanf(readPtr,"%d",&temp)==1)

counter++;

//write to integer.txt 1 - n

for(i=1;i<=counter;i++)

fprintf(writePtr,"%d\n",i);

fclose(readPtr);

fclose(writePtr);

return 0;

}

Warm Up6)

#include<stdio.h>

#include<stdlib.h>

#include<time.h>

int main()

{

int x,i;

srand(time(NULL));

for(i=0;i<25;i++)

{

x = rand()%31 + 20;

printf("%d\n",x);

}

return 0;

}

#include<stdio.h>

#include<stdlib.h>

#include<time.h>

int main()

{

int i;

char c;

srand(time(NULL));

for(i=0;i<50;i++)

{

if(rand()%2==0)

c = rand()%('z'-'a'+1) + 'a';

else

c = rand()%('z'-'a'+1) + 'A';

printf("%c\n",c);

}

return 0;

}

WarmUp8)

#include<stdio.h>

#include<stdlib.h>

#include<time.h>

int main()

{

int i;

double x;

srand(time(NULL));

for(i=0;i<50;i++)

{

x = rand()/(double)RAND\_MAX\*30+20;

printf("%lf\n",x);

}

return 0;

}

WarmUp9)

#include<stdio.h>

void printBinary(unsigned short x);

int main()

{

unsigned short x = 10, y = 12;

printf("\nThe binary represantation of %hu is: ",x);

printBinary(x);

printf("\nThe binary represantation of %hu is: ",y);

printBinary(y);

printf("\nThe binary represantation of x & y is: ");

printBinary(x&y);

printf("\nThe binary represantation of x | y is: ");

printBinary(x|y);

printf("\nThe binary represantation of x^y is: ");

printBinary(x^y);

printf("\nThe binary represantation of ~x is: ");

printBinary(~x);

return 0;

}

void printBinary(unsigned short x)

{

unsigned short mask = 1<<15;

unsigned short numOfBits = sizeof(x)\*8;

int i;

for(i=0; i<numOfBits;i++)

{

if((mask & x)!=0)

printf("%c",'1');

else

printf("%c",'0');

mask=mask>>1;

// just separateing the bits into group

if((i+1)%4==0)

printf(" ");

}

printf("\n\n");

}