Assignment 8.2

Name: Aishwarya Bhavsar

CSULBID: 029371509

Source Code: TestSample.c

```
#include <stdio.h>
#include <stdlib.h>
const int SCORE_MAXIMUM = 100;
void generateArray(FILE** file, int array[], int size)
{
int i =0;
for(i=0; i< size; i++)
fscanf(*file, "%d", &array[i]);
}
}
int compareArray(int key[], int answers[], int size)
{
int misses = 0,i = 0;
for(i = 0; i < size; i++)
if(key[i] != answers[i])
misses++;
return SCORE_MAXIMUM - (SCORE_MAXIMUM/size) * misses;
}
```

```
int main()
{
FILE* fp;
int key[50], answers[50], num_questions;
int frequency[101] = {0};
int studentID, score, numTests=0,i=0;
double average=0,avg=0;
char file_name[10];
char fileText[2],ch;
printf("Enter file name: \n");
fflush(stdout);
scanf("%d");
gets(file_name);
fp = fopen(file_name, "r");
fgets (fileText, 3, fp);
num_questions = atoi(fileText);
generateArray(&fp, key, num_questions);
printf("Student ID Score\n");
printf("=======\n");
while(EOF!=(ch=fgetc(fp)))
{
fscanf(fp, "%d", &studentID);
generateArray(&fp, answers, num_questions);
score = compareArray(key, answers,num_questions);
frequency[score]++;
```

```
average += score;
printf("%d
           %d\n",studentID,score);
numTests++;
}
printf("=======\n");
printf("Tests graded = %d\n",numTests);
printf("=======\n");
printf("Score Frequency\n");
printf("=======\n");
for(i=100;i>0;i--)
{
if(frequency[i]!=0)
printf("%d %d\n",i,frequency[i]);
}
}
printf("=======\n");
avg = average/numTests;
printf("Class average = %f\n",avg);
return 0;
}
```

Scantron1.txt

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OUTPUT: IDE Used is Notepad++

