Name: Allison Ohara (40652) Purpose: Project 1

System Libraries
cstdlib, iostream, ctime, iomanip, string, cmath, fstream

User Libraries
none

Global Constants
none

Function Prototypes
none

A

A

Declare/initialize constants:
int WINNING;
string ONE, TWO, THREE, FOUR, FIVE, SIX, KIND3, KIND4, FULL, SMALLST, LARGEST, YAHTZEE, CHANCE

set random seed
srand(static_cast<unsigned int> (time(0))

Declare Variables:
int dice1, dice2, dice3, dice4, dice5;
int oneS, twoS, threeS, fourS, fiveS, sixS
int ones, twos, threes, fours, fives, sixes;
bool oneC, twoC, threeC, fourC, fiveC, sixC, kind3C, kind4C, fullC, smStC, larStC, yahtzeC, chanceC;
bool roll, roll1, roll2, roll3, roll4, roll5;
int kind3S, kind4S, fullS, smStS, larStS, yahtzeS, chanceS;
int upper, total, bonus, score, rolls, formerScore;
char r;
string choice;
ifstream inFile;
ofstream outFile;

Initialize Variables:
oneC=twoC=threeC=fourC=fiveC=sixC= kind3C=kind4C=fullC=smStC=larStC= yahtzeC=chanceC=false;
oneS=twoS=threeS=fourS=fiveS=sixS= kind3S=kind4S=fullS=smStS=larStS= yahtzeS=chanceS=0;

Open File:
inFile.open("Project_1.txt

inFile>>formerScore
cout<<formerScore<<endl;

Close File
inFile.close();

B

B

int i =1;

For loop page 1

i<=13 — False → H page 4

True

ones=twos=threes=fours= fives=sixes=0; rolls=0;

rolls++;

User Input:
cin>>r

r!='r'||r!='R'; — True

False

roll1 — True → dice1=rand()%6 +1

False

roll2 — True → dice2=rand()%6 +1

False

roll3 — True → dice3=rand()%6 +1

False

roll4 — True → dice4=rand()%6 +1

False

roll5 — True → dice5=rand()%6 +1

False

Output dice1, dice2, dice3, dic4, dice5

rolls<3 — True

False → **User Input** roll

C

C

!oneC — True → cout<<ONE<<e

False

!twoC — True → cout<<TWO<<

False

!threeC — True → cout<<THREE<<

False

!fourC — True → cout<<FOUR<<

False

!fiveC — True → cout<<FIVE<<

False

!sixC — True → cout<<SIX<<

False

!kind3C — True → cout<<KIND3<<

False

!kind4C — True → cout<<KIND4<<e

False

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User Input: roll1, roll2, roll3 roll4, roll5

True

roll — False

True

rolls<3 — False

True

rolls = 4

C

endl;

endl;

endl;

endl;

endl;

endl;

endl;

endl;