**Part A**

#include <iostream>

using namespace std;

int main()

{

for (int i=0; i<=127; i++)

{

cout << (char) i << “ ”;

if (i % 16 ==0)

cout << endl;

}

return 0;

}

A picture containing graphical user interface

Description automatically generated

**Part B**

#include <iostream>

#include <cstdlib>

#include <ctime>

#include <iomanip>

#include <cmath>

using namespace std;

int main()

{

int choice;

const int MIN = 0;

const int MAX = 999;

int n1, n2;

int sum, sub, multp;

float divd, userResult;

int result;

do

{

unsigned seed = time(0);

srand(seed);

n1 = MIN + rand() % MAX;

n2 = MIN + rand() % MAX;

cout << " Math Tutor Calculator" << endl;

cout << " 1. Addition Questions" << endl;

cout << " 2. Subtraction Questions" << endl;

cout << " 3. Multiplication Questions" << endl;

cout << " 4. Division Questions" << endl;

cout << " 5. Quit" << endl << endl;

cout << " Enter your choice (1-5):" << endl;

cin >> choice;

if (choice >= 1 && choice <= 5)

{

switch (choice)

{

case 1:

cout << "Please enter your result.\n";

cout << " " << n1 << endl;

cout << "+";

cout << n2 << endl;

cout << "-----\n";

cin >> result;

sum = n1 + n2;

if (result == sum)

cout << "Yes! You have the right answer.\n";

else

{

cout << "Oops! Please try again.\n";

cout << sum << endl;

}

break;

case 2:

cout << "Please enter your result.\n";

cout << " " << n1 << endl;

cout << "-";

cout << n2 << endl;

cout << "-----\n";

cin >> result;

sub = n1 - n2;

if (result == sub)

cout << "Yes! You have the right answer.\n";

else

{

cout << "Oops! Please try again.\n";

cout << sub << endl;

}

break;

case 3:

cout << "Please enter your result.\n";

cout << " " << n1 << endl;

cout << "\*";

cout << n2 << endl;

cout << "-----\n";

cin >> result;

multp = n1 \* n2;

if (result == multp)

cout << "Yes! You have the right answer.\n";

else

{

cout << "Oops! Please try again.\n";

cout << multp << endl;

}

break;

case 4:

cout << "Please enter your result.\n";

cout << " " << n1 << endl;

cout << "/";

cout << n2 << endl;

cout << "-----\n";

cin >> userResult;

divd = n1 / n2;

if (fabs(userResult - divd) < 0.001)

cout << "Yes! You have the right answer.\n";

else

{

cout << "Oops! Please try again.\n";

cout << divd << endl;

}

break;

case 5:

cout << "Goodbye!\n";

break;

}

}

else

{

cout << "please select a valid choice from 1-5";

}

}

while (choice != 5);

return 0;

}

**Text

Description automatically generated**

**Part C**