Assignment #1

Question #1

#include<iostream>

using namespace std;

int main()

{

int a, b, c,sum;/\*Here we are intialize three variables by taking input \*/

cout << "Enter the value of a =";

cin >> a;

cout << endl;

cout << "Enter the value of b =";

cin >> b;

cout << endl;

cout << "Enter the value of c =";

cin >> c;

cout << endl;/\*This is the condition for isosceles triangle \*/

if ((sum=a+b)>c||(sum=a+c)>b||(sum=b+c)>a)/\*Here we are checking the condition of a triangle \*/

{

cout << "It is triangle ";

cout << endl;

}

else

{

cout << "it is not Trianle ";

}

if (((a == b) && (a != c) && (b != c)) || (a == c) && ((a != b) && (b != c)) || ((b == c) && (a != c) && (a != b)))

{

cout << "Triangle is ISosceles";

cout << endl;

}

else if ((a == b) && (a == c )|| (b == c)&&(b==a))/\*This is the condition for Equilateral triangle \*/

{

cout << "Triangle is Equilateral";

cout << endl;

}

else if ((a != b) && (a != c) || ((b != c) && (b != a)))/\*This is the condition for Scalenes triangle\*/

{

cout << "Triangle is Scalenes";

cout << endl;

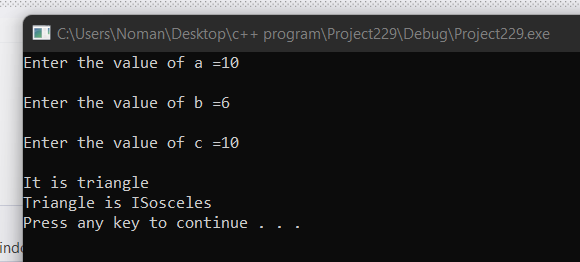
}

system("pause");

return 0;

}

Output



Question #2

#include<iostream>

#include<string>

using namespace std;

int main()

{

int year;

string month;/\* Here we are taking month as a input and also year\*/

cout << "Enter the month : ";

cin >> month;

cout << "Enter the year : ";

cin >> year;

if (month == "jan")/\* this condition is for month januarary\*/

cout << "year is" << year << " days are 31" << endl;

if (month == "mar")

cout << "year is" << year << " days are 31" << endl; /\*this condition is for month march \*/

if (month == "Apr")

cout << "year is" << year << " days are 30" << endl; /\*similarly the following given below months will follow theirs condition \*/

if (month == "may")

cout << "year is" << year << " days are 31" << endl;

if (month == "jun")

cout << "year is" << year << " days are 30" << endl;

if (month == "july")

cout << "year is" << year << " days are 31" << endl;

if (month == "Aug")

cout << "year is" << year << " days are 31" << endl;

if (month == "sep")

cout << "year is" << year << " days are 30" << endl;

if (month == "oct")

cout << "year is" << year << " days are 31" << endl;

if (month == "nov")

cout << "year is" << year << " days are 30" << endl;

if (month == "dec")

cout << "year is" << year << " days are 31" << endl; /\*Here we have to find Leap year for febuarary month this is special condition \*/

if (month == "feb")

{

if (year % 4 == 0) /\* if month modulus equal to zero then year is Leap otherwise year is not leap year\*/

cout << "year is " << year << " and is leap year days are 29" << endl;

else

cout << "Year is " << year << " and year is not leap and days are 28 " << endl;

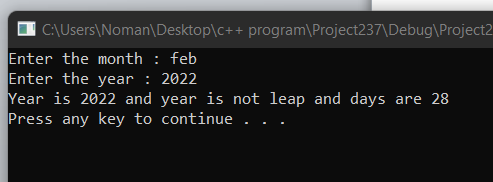
}

system("pause");

return 0;

}

Output



Question #3

Code:

#include<iostream>

using namespace std;

int main()

{ /\* First we are intializeing some variables for differnt values\*/

int money,five\_hundredrupeenote = 0, hundred\_rupeenote = 0, fifty\_rupeenote = 0, twenty\_rupeenote = 0, tenrupee\_note = 0, five\_rupeenote = 0, two\_rupeecoin = 0, one\_rupeecoin = 0;

cout << "Enter the Money to take change ="; /\*here we are taking input\*/

cin >> money;

cout << endl;

five\_hundredrupeenote = money / 500; /\*This chunk will show five hundred\_rupeenote\*/

money = money - (five\_hundredrupeenote \* 500);

hundred\_rupeenote = money / 100;

money = money - (hundred\_rupeenote \* 100); /\*This chunk will show hundre rupee note\*/

fifty\_rupeenote = money / 50;

money = money - (fifty\_rupeenote \* 50); /\*Similarly There are following given below chunks which will perform differnt function\*/

twenty\_rupeenote = money / 20;

money = money - (twenty\_rupeenote \* 20);

tenrupee\_note = money / 10;

money = money - (tenrupee\_note \* 10);

five\_rupeenote = money / 5;

money = money - (five\_rupeenote \* 5);

two\_rupeecoin = money / 2;

money = money - (two\_rupeecoin \* 2);

one\_rupeecoin = money / 1;

money = money - (one\_rupeecoin \* 1);

cout << "Total number of notes :" << endl; /\*Here we are simply displaying notes\*/

cout << "500 rupees notes: " << five\_hundredrupeenote;

cout << endl;

cout << "100 rupee Notes :" << hundred\_rupeenote;

cout << endl;

cout << "50 rupee Notes :" << fifty\_rupeenote;

cout << endl;

cout << "20 rupee Notes :" << twenty\_rupeenote;

cout << endl;

cout << "10 rupee Notes :" << tenrupee\_note;

cout << endl;

cout << "5 rupee Notes :" << five\_rupeenote;

cout << endl;

cout << "2 rupee coin :" << two\_rupeecoin;

cout << endl;

cout << "1 rupee coin :" << one\_rupeecoin;

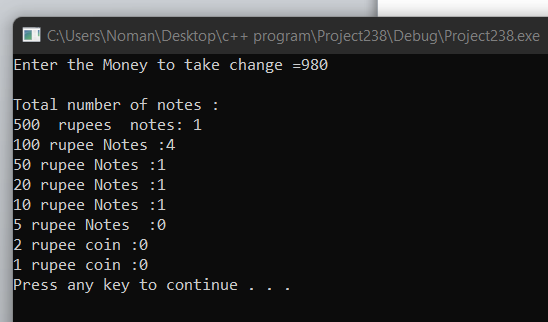
cout << endl;

system("pause");

return 0;

}

Output



Question #4

Code:

#include<iostream>

using namespace std;

int main()

{

int num1, num2;

cout << "Enter the first Number ="; /\*Here we are taking two numbers as a input \*/

cin >> num1;

cout << endl;

cout << "Enter the second Number =";

cin >> num2;

cout << endl;

char op; /\*These are Following operators which will perform differnt Functions according to operator case\*/

cout << "Enter the Operator =";

cin >> op;

cout << endl;

switch (op)

{

case '+': /\*This Case is for addition \*/

cout << "The adittion of Numbers is =" << num1 + num2;

cout << endl;

break;

case '-': /\*This case is for subtraction\*/

cout << " The subtraction of Numbers is = " << num1 - num2;

cout << endl;

break;

case '\*': /\*This case is for Multiplication \*/

cout << "The Muliplication of Numbers is =" << num1\*num2;

cout << endl;

break;

case '/': /\*This case is for division\*/

cout << "The Division of Numbers is =" << num1 / num2;

cout << endl;

default:

cout << "Invalid Input";

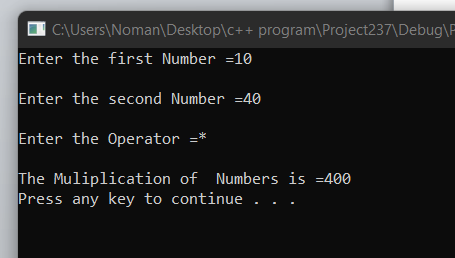
}

system("pause");

return 0;

}

Output



Question #5

#include<iostream>

using namespace std;

int main()

{

int qscore, mscore, fscore, avgscore; /\*Here we are taking these scores as input. these score represent mid-term ,quiz and final term\*/ /\*scores \*/

char grade = 1;

cout << "Enter the score of Quiz :";

cin >> qscore;

cout << endl;

cout << "Enter the Score of MId-term :"; /\*we are entering the Mid-term score here \*/

cin >> mscore;

cout << endl;

cout << "Enter the Score of final Term :"; /\*We are entering the final term score here\*/

cin >> fscore;

avgscore = ((qscore + mscore + fscore) / 3)\*10; /\*Here we are finding the average score \*/

switch (grade)

{

case 1:

if (avgscore == 90) /\*This condition is for grade A\*/

{

cout << "Grade:" << "A";

cout << endl;

break;

}

else if (avgscore >= 70 && avgscore < 90)/\* This condition is for grade B\*/

{

cout << "Grade :" << "B";

cout << endl;

break;

}

else if (avgscore >= 50 && avgscore < 70) /\*This condition is for grade C\*/

{

cout << "Grade:" << "C";

cout << endl;

break;

}

else if (avgscore < 50)/\*This condition is for Grade F\*/

{

cout << "Grade :" << "F";

cout << endl;

break;

}

default:

{

cout << "invalid input";

cout << endl;

}

}

cout << "The average score is =" << avgscore;

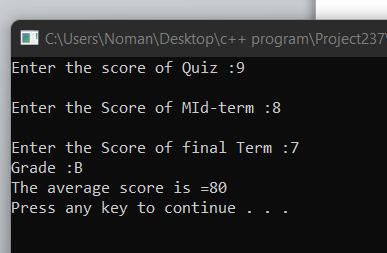
cout << endl;

system("pause");

return 0;

}

**Output**



Task #6

Code

#include<iostream>

using namespace std;

int main()

{

char ch;

cout << "Enter the Character :";/\* here we are entering a character as a input\*/

cin >> ch;

(ch>='a'&&ch<='z')||(ch>='A'&&ch<='Z')?/\* we are using ternary operator

\*/

cout << "This is alphabet ":/\* This is true part \*/

cout << "it is not alphabet"; /\*this is else part\*/

system("pause");

return 0;

}

Output

