# Assignment 10

Question 1

Write a program to input an integer(**A**) from user and print the Ath month of the year.

Months list: **{January, February, March, April, May, June, July, August, September, October, November, December}**

#include <iostream>

using namespace std;

int main() {

int A;

cin >> A;

if (A==1){

cout << "January";

}

else if (A==2){

cout << "February";

}

else if (A==3){

cout << "March";

}

else if (A==4){

cout << "April";

}

else if (A==5){

cout << "May";

}

else if (A==6){

cout << "June";

}

else if (A==7){

cout << "July";

}

else if (A==8){

cout << "August";

}

else if (A==9){

cout << "September";

}

else if (A==10){

cout << "October";

}

else if (A==11){

cout << "November";

}

else if (A==12){

cout << "December";

}

else {

cout << "Invalid Data";

}

return 0;

}

Question 2

Write a program to input an integer(A) .

You have to tell how many days are there in the month denoted by A in a non-leap year.

// Online C++ compiler to run C++ program online

#include <iostream>

using namespace std;

int main() {

int year, month;

cin >> month;

if(month == 1 || month == 3 || month == 5 || month == 7 || month == 8 || month == 10 || month == 12)

cout << "31";

else if((month == 2) && ((year%400==0) || (year%4==0 && year%100!=0)))

{

cout << "29";

}

else if(month == 2)

{

cout << "28";

}

else

cout << "30";

return 0;

}

Question 3

Write a program to calculate the percentage and grades according to the percentage of a student. Five numbers (A, B, C, D & E) represent the marks of a student in 5 subjects which are out of 100. Print the percentage and the grade of the student.

* If percentage >= 90% : Grade A
* If percentage >= 80% but <90 : Grade B
* If percentage >= 70% but <80: Grade C
* If percentage >= 60% but <70: Grade D
* If percentage >= 40% but <60: Grade E
* If percentage < 40%: Grade F

**NOTE:** You have to take the lowest integer of the percentage. E.g. 90.8% will be treated as 90%.

#include <iostream>

using namespace std;

int main() {

int i;

float mark, sum=0, avg;

cout<<"Enter Marks obtained in 5 Subjects:\n";

for(i=0; i<5; i++)

{

cin>>mark;

sum = sum+mark;

}

avg = sum/5;

cout<< avg;

cout<<"\n";

if(avg>=90)

cout<<"A";

else if(avg>=80 && avg<90)

cout<<"B";

else if(avg>=70 && avg<80)

cout<<"C";

else if(avg>=60 && avg<70)

cout<<"D";

else if(avg>=40 && avg<60)

cout<<"E";

else if(avg<40)

cout<<"F";

else

cout<<"Invalid!";

cout<<endl;

return 0;

}

Question 4

Write a program to input two numbers (A & B) from user and print the maximum element among A & B in each line.

#include <iostream>

using namespace std;

int main() {

int A, B;

cin >> A >> B;

if (A > B)

{

cout << A;

}

else

{

cout << B;

}

}

Question 5

Write a program to input three numbers (A, B & C) from user and print the maximum element among A, B & C in each line.

#include <iostream>

using namespace std;

int main() {

int A, B, C;

cin >> A >> B >> C;

if(A >= B && A >= C)

cout << A;

if(B >= A && B >= C)

cout << B;

if(C >= A && C >= B)

cout << C;

return 0;

}

Question 6

Write a program to input an integer (A). You have to tell whether A is divible by both 5 and 11 or not.

#include <iostream>

using namespace std;

int main() {

int A;

cin >> A;

if(A%5==0 && A%11==0){

cout << "1";

}

else{

cout << "0";

}

return 0;

}

Question 7

Write a program to input -> float A and Double B. You have to print A to 4 decimal places and B to 7 decimal places.

#include <iostream>

#include <iomanip>

using namespace std;

int main() {

// Write C++ code here

float a;

double b;

cin >> a >> b;

cout << fixed << setprecision(4) << a <<endl;

cout << fixed << setprecision(7) << b <<endl;

}

Question 8

Write a program to input a number (A) from user and print 1 if it is positive, -1 if it is negative, 0 if it's neither positive nor negative.

#include <iostream>

using namespace std;

int main() {

int A;

cin >> A;

if (A > 0)

cout << "1";

else if (A < 0)

cout << "-1";

else

cout << "0";

return 0;

}