171600 - LAB 3

## Question 1

#include <iostream>

using namespace std;

int main() {

int port;

cout << "Enter a Valid port Number ";

cin >> port;

if((port >= 14 && port <= 72) || ( port > 103)){

cout << "Within Range";}

else {

cout << "Out of range";

}

}

## Question 2

#include <iostream>

using namespace std;

int main() {

int num;

cout << "Enter a Valid Number ";

cin >> num;

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

cout << "Divisible By 5 and 11";}

else {

cout << "Not divisible by both";

}

}

## Question 3

#include <iostream>

using namespace std;

int main() {

float commission;

string name;

float sales;

cout << "Enter Your Name ";

cin >> name;

cout << "Enter Total sales ";

cin >> sales;

if(sales >= 20000 && sales <= 80000 ){

commission = sales \* 0.02;}

else if (sales >= 80001 && sales <= 120000 ){

commission = sales \* 0.05;}

else if (sales > 120000){

commission = sales \* 0.10;

}

else{

commission = 0;

}

cout << "Name : "<< name;

cout << "\n Monthly sales :"<< sales;

cout << "\n Commission due : "<< commission;

}

## Question 4

#include <iostream>

using namespace std;

int main() {

int totalgb;

float subtotal;

float surcharge;

float totalbill;

cout << "What was your usage ?";

cin >> totalgb;

if(totalgb <= 50 ){

subtotal = totalgb \* 10;}

else if (totalgb <= 150){

subtotal = (50\*10) + ((totalgb - 50) \* 20);}

else{

subtotal = (50 \* 10) + (100 \* 20) + ((totalgb - 150) \* 30);

}

surcharge = subtotal \* 0.20;

totalbill = subtotal + surcharge;

cout << "Sub-total: " << subtotal << " units " ;

cout << "Surcharge : " << surcharge << " units ";

cout << "Total Bill: " << totalbill << " units " ;

}