Q1

#include<bits/stdc++.h>

using namespace std;

int main() {

float a;

int b;

cin>>a;

b=static\_cast<int>(a);

cout<<"Original floating pt no. is "<<a<<endl;

cout<<"Type cast int value is "<<b<<endl;

return 0;

}

Q2

#include <iostream>

using namespace std;

int main(){

float r;

cin>>r;

float Ar= 3.14\*r\*r;

cout<<"Area of circle with radius "<<r<<" is "<<Ar<<endl;

return 0;

}

Q3

// C++ Program to print current Day, Date and Time

#include <ctime>

#include <iostream>

using namespace std;

int main()

{

// Declaring argument for time()

time\_t tt;

// Declaring variable to store return value of

// localtime()

struct tm\* ti;

// Applying time()

time(&tt);

// Using localtime()

ti = localtime(&tt);

cout << "Current Day, Date and Time is = "

<< asctime(ti);

return 0;

}

Q4

#include <iostream>

using namespace std;

int main(){

int t;

cin>>t;

while (t--){

int age;

cin>>age;

if (age<13){

cout<<"You are a child"<<endl;

}

else if (age>=13 and age<18){

cout<<"You are a teenager"<<endl;

}

else if (age>=18 and age<60){

cout<<"You are an adult"<<endl;

}

else if (age>=60){

cout<<"You are a senior citizen"<<endl;

}

}

return 0;

}

Q5

#include <iostream>

#include <string>

using namespace std;

int main() {

int t;

cin>>t;

while (t--){

string correct\_pass = "codex";

while (true) {

string pass;

cin >>pass;

if (pass == correct\_pass) {

cout<<"Password correct."<<endl;

break;

}

else {

cout<<"Password incorrect. Try again."<<endl;

break;

}

}

}

return 0;

Q5

#include <iostream>

using namespace std;

int main() {

int lower\_limit;

cin>>lower\_limit;

int upper\_limit;

cin>>upper\_limit;

int count=0;

for(int i=lower\_limit; i<upper\_limit; i++){

for(int j=2; j<i; j++){

if(i%j==0){

break;

}

else{

cout<<i<<" ";

count =count+1;

break;

}

}

if(count==5){

break;

}

}

return 0;

}

Q7

#include <iostream>

#include <string>

using namespace std;

int main() {

for (int i=1; i<=20; i++) {

if (i%2==0){

if (i==10){

continue;

}

cout << i << " ";

}

}

cout << endl;

return 0;

}