LAB MANUAL-02 C++

Question no 1

#include<iostream>

using namespace std;

int main ()

{

int year;

cout<<"Enter any year";

cin>>year;

if (year % 4 == 0 || year % 400 == 0)

cout<<"Leap year";

else

cout<<"Not leap year";

}

QUESTION NO 02

#include<iostream>

using namespace std;

int main()

{

char x;

cout<<"Enter the character";

cin>>x;

if ( x >= 65 && x <= 90 )

{

cout<<" Capital letter";

}

else if ( x >= 97 && x <= 122 )

{

cout<<" Small case letter";

}

else if ( x >= 48 && x <= 57 )

{

cout<<"Digits";

}

else if ( (x >= 0 && x <= 47 ) || ( x >= 58 && x <= 64 ) ||

( x >= 91 && x <= 96) || ( x >= 123 && x <= 127) )

{

cout<<" Special symbols";

}

}

QUESTION NO 03

#include<iostream>

using namespace std;

int main ()

{

char health\_condition ;

cout<<"Enter the health condition ,P-poor\n E-excellent ";

cin>>health\_condition;

int age;

cout<<"Enter the age " <<endl;

cin>>age ;

char residency ;

cout<<"Enter the residency ,C-city \n V-village" <<endl;

cin>>residency;

char gender ;

cout<<"Enter the gender M-male \n F-female " <<endl;

cin>>gender;

if ( health\_condition == 'E' && ( age >= 25 && age <= 35)

&& residency == 'C' && gender == 'M' )

{

cout<<" Can be insured, the premium is Rs.4 per thousand and his policy amount cannot exceed Rs. 2 lakhs ";

}

else if ( health\_condition == 'E' && ( age >= 25 && age <= 35)

&& residency == 'C' && gender == 'F' )

{

cout<<"Can be insured, the premium is Rs.3 per thousand and her policy amount cannot exceed Rs 1.lakh";

}

else if ( health\_condition == 'P' && ( age >= 25 && age <= 35)

&& residency == 'V' && gender == 'M')

{

cout<<"Can be insured,the premium is Rs.6 per thousand and his policy to exceed Rs.10,000";

}

else

{

cout<<"Person cannot be insured";

}

}

QUESTION NO 04

#include<iostream>

using namespace std;

int main ()

{

int hard,tensile;

float carbon;

cout<<"Enter the hardness ";

cin>>hard;

cout<<"Enter the tensile ";

cin>>tensile;

cout<<"Enter the carbon ";

cin>>carbon;

if (hard > 50 && carbon < 0.7 && tensile > 5600)

{

cout<<"Grade 10";

}

else if (hard > 50 && carbon < 0.7 && tensile <= 5600)

{

cout<<"Grade 09";

}

else if ( hard <= 50 && carbon < 0.7 && tensile > 5600 )

{

cout<<"Grade 08";

}

else if (hard > 50 && carbon >= 0.7 && tensile > 5600)

{

cout<<"Grade 07";

}

else if (hard < 50 && carbon < 0.7 && tensile < 5600 )

{

cout<<"Grade 06";

}

else if (hard < 50 && carbon > 0.7 && tensile < 5600 )

{

cout<<"Grade 05";

}

}

QUESTION NO 05

#include<iostream>

using namespace std;

int main ()

{

int days ;

cout<<"Enter the days";

cin>>days;

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

{

cout<<"Fine is 50 paisa";

}

else if (days >= 6 && days <= 10)

{

cout<<"Fine is 1 Rupee";

}

else if (days >= 10 && days<= 30)

{

cout<<"Fine is 5 Rupees";

}

else if (days >= 30 )

{

cout<<"Membership Cancelled";

}

}

QUESTION NO 06

#include<iostream>

using namespace std;

int main ()

{

int a,b,c ;

cout<<"Enter three values";

cin>>a>>b>>c;

if ( (a+b > c) && (a+c > b) && (b+c > a))

{

cout<<"Triangle is valid";

}

else

{

cout<<"Triangle is not valid";

}

}

QUESTION NO 07

#include<iostream>

using namespace std;

int main()

{

int a,b,c ;

cout<<"Enter three values";

cin>>a>>b>>c ;

if ( (a==b) && (b==c)) // (a==b && a==c)

{

cout<<"Triangle is Equilateral";

}

else if ((a==b) || (a==c) || (b==c))

{

cout<<"Triangle is Isosceles";

}

else if ((a == b + c) || (b == a + c) ||

(c == a + b) )

{

cout<<"Right Angled Triangle";

}

else

{

cout<<"Scalene Triangle";

}

}

QUESTION NO 08

#include<iostream>

using namespace std;

int main()

{

int hours ;

cout<<"Enter the hours";

cin>>hours;

if (hours >= 2 && hours <= 3 )

{

cout<<"Highly Efficient";

}

else if (hours > 3 && hours <= 4)

{

cout<<"Improved speed";

}

else if (hours > 4 && hours <= 5 )

{

cout<<"Training";

}

else if (hours > 5)

{

cout<<"Worker has leave the company";

}

}

QUESTION NO 09

#include<iostream>

using namespace std;

int main()

{

int subj\_A, subj\_B ;

cout <<"Enter the marks in subject A ";

cin>>subj\_A;

cout<<"Enter the marks in subject B ";

cin>>subj\_B ;

if ((subj\_A >= 55 && subj\_B >= 45) || (subj\_A >= 45 && subj\_B >= 55))

{

cout<<"Pass";

}

else if (subj\_B < 45 && subj\_A >= 65 )

{

cout<<"Allow to reappear";

}

else

{

cout<<"Fail";

}

}

QUESTION NO 10

#include<iostream>

using namespace std;

int main()

{

int customer,stock;

char credit;

cout<<"Enter the customer order "<<endl;

cin>>customer;

cout<<"Enter the stock "<<endl;

cin>>stock;

cout<<"Enter the credit O-ok and N-not "<<endl;

cin>>credit;

if (customer <= stock && credit == 'O')

{

cout<<"Supply has requirement";

}

else if (credit == 'N')

{

cout<<"Intimation";

}

else if (credit == 'O' && stock < customer)

{

cout<<"Supply in stock";

cout<<"Intimation him to data balance will be shipped";

}

}

WRITTEN BY

RANA SAEED