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//A24CS0157

//Question 1

#include <iostream>

using namespace std;

int main (){

//declare

int age;

//input

cout<<"Enter age: ";

cin>> age;

//process and output

if(age>=0 && age<=12)

cout<<"The category is Child";

else if (age>=13 && age<=17)

cout<<"The category is Teenager";

else if( age>= 18 && age<= 64)

cout<<"The category is Adult";

else

cout<<"The category is Senior";

return 0;

}

//Question 2

#include <iostream>

using namespace std;

int main(){

int num;

cout<<"Enter a number: ";

cin>>num;

switch(num){

case 1: cout<<"Sunday";

break;

case 2: cout<<"Monday";

break;

case 3: cout<<"Tuesday";

break;

case 4: cout<<"Wednesday";

break;

case 5: cout<<"Thursday";

break;

case 6: cout<<"Friday";

break;

case 7: cout<<"Saturday";

break;

default: cout<<"Invalid input.";

break;

}

return 0;

}

//Question 3

#include<iostream>

#include <string>

using namespace std;

int main(){

int discount=0;

double totalAmount, finalPrice;

string type;

cout<<"Enter customer type:";

cin>>type;

cout<<"\nEnter total purchase amount:";

cin>>totalAmount;

if(type== "Gold"){

if(totalAmount>= 1000)

discount= 50;

else if(totalAmount>=500 && totalAmount<=999)

discount=40;

else if(totalAmount>=200 && totalAmount<=499)

discount=25;

else

discount=10;

}

else if(type== "Regular"){

if(totalAmount<200)

discount= 5;

else if(totalAmount>=200 && totalAmount<=499)

discount=15;

else if(totalAmount>=500 && totalAmount<=999)

discount= 30;

else

discount= 40;

}

else{

cout<<"\nInvalid input";

}

finalPrice= totalAmount\* (1- discount/100.0);

cout<<"\nThe discount is "<<discount;

cout<<"\nFinal price after discount is "<<finalPrice;

return 0;

}

//Question 4

#include <iostream>

using namespace std;

int main ()

{int n;

cout<< "Enter an integer: ";

cin>> n;

if (n <= 0)

{

cout<< "Please enter positive integer." <<endl;

}

else

{

cout<< "Number from 1 to " << n << " : " <<endl;

for (int i = 1 ; i <= n; i++)

{

cout << i << " ";

}

cout << endl;

}

return 0;

}

//Question 5

#include<iostream>

using namespace std;

int main(){

int password;

cout<<"Enter the password: ";

cin>>password;

while(password!=1234){

cout<<"\nIncorrect password. Please try enter new password:";

cin>>password;

}

if(password==1234)

cout<<"Correct password, Access granted!";

return 0;

}

//Question 6

#include <iostream>

using namespace std;

int main()

{

char userchoice;

char n,y;

do {

cout << "Enter your choice (Enter 'y' to continue / 'n' to stop) : ";

cin >> userchoice;

if (userchoice == n)

{

cout << "You chose to stop." << endl;

break;

}

} while (userchoice!= 'n' );

return 0;

}

//Question 7

#include <iostream>

using namespace std;

int main(){

int points, discount;

char choice;

cout<<"Enter your current loyalty points: ";

cin>>points;

do{

if(points<100){

cout<<"Insufficient points to redeem. "<<endl;

break;

}

if(points>1000){

cout<<"You get a 15% discount"<<endl;

points= points-1000;

}

else if(points>=500 && points<=999){

cout<<"You get a 10% discount"<<endl;

points= points-500;

}

else if(points>=100 && points<=499){

cout<<"You get a 5% discount"<<endl;

points= points-100;

}

cout<<"Remaining points: "<<points<<endl;

cout<<"Do you want to redeem again?";

cin>>choice;

}

while(choice=='y' && points>=100);

cout<<"Thank you for using the loyalty progam with us!"<<endl;

return 0;

}