# Assignment-2

2)WAP to check whether a number is EVEN or ODD ??

#include<iostream>

using namespace std;

class Number

{

int num;

public: void check()

{

cout<<"Number is \n";

cin>>num;

if(num%2==0)

{

cout<<"Number is Even \n";

}

else{

cout<<"Numbers is odd \n";

}

}

};

int main()

{

Number n1;

n1.check();

}

3) WAP to check whether a person is Eligible for VOTE or NOT ??

#include<iostream>

using namespace std;

class Eligible

{

int age;

public: void check()

{

if(age>=18)

{

cout<<"Eligible to vote \n";

}

else{

cout<<"Not eligible to vote \n";

}

}

};

int main()

{

Eligible e1;

} e1.check();

}

4) WAP to check whether a number is GREATER THAN 10 or NOT ??

#include<iostream>

using namespace std;

class Greater1

{

int num;

public: void check()

{

cout<<" Enter a Number \n";

cin>>num;

if(num>=10)

{

cout<<"Greater than 10 \t";

}

else{

cout<<"Less than 10";

}

}

};

int main()

{

Greater1 g1;

g1.check();

}

5) WAP to find the GREATER of TWO numbers ??

#include<iostream>

using namespace std;

class Greater\_two

{

int num1,num2;

public: void find()

{

cout<<"Enter two numbers \n";

cin>>num1>>num2;

if(num1>num2)

{

cout<<"num1 is greater \t";

}

else

{

cout<<"num2 is greater \t";

}}

};

int main()

{

Greater\_two g1;

g1.find();

}

6) WAP to find the GREATER of THREE Numbers??

#include<iostream>

using namespace std;

class Greater\_three

{

int num1,num2,num3;

public: void find()

{

cout<<"Enter three numbers \n";

cin>>num1>>num2>>num3;

if(num1>num2 && num1>num3)

{

cout<<"num1 is greater \t";

}

else if(num2>num1 && num2>num3)

{

cout<<"num2 is greater \t";

}

else{cout<<"num3 is greater";}

}

};

int main()

{

Greater\_three g1;

g1.find();

}

7)WAP to check whether a number is +VE OR –VE OR ZERO ??

#include<iostream>

using namespace std;

class Positive

{

int num;

public: void check()

{

cout<<"Enter a Number \n";

cin>>num;

if(num>0)

{

cout<<"Number is Positive \n";

}

else if(num<0)

{

cout<<"Number is Negative \n";

}

else{

cout<<"Number is Zero\n";

}

}

};

int main()

{

Positive p1;

p1.check();

}

8)WAP to check the EQUALITY of 2 numbers ??

#include<iostream>

using namespace std;

class Equality

{

int a,b;

public: void check()

{

cout<<"Numbers are\n";

cin>>a>>b;

if(a==b)

{

cout<<"Numbers are equal \n";

}

else{

cout<<"Not Equal\n";

}

}

};

int main()

{

Equality E1;

E1.check();

}

10)WAP to check whether entered character is alphabet or not??

#include<iostream>

using namespace std;

class Alphabet

{

char ch;

public: void check()

{

cout<<"Enter a Character \n";

cin>>ch;

if(ch>='a' && ch<='z')

{

cout<<" is alphabet\n";

}

else{

cout<<"is not an alphabet\n";

}

}

};

int main()

{

Alphabet a1;

a1.check();

}

11)WAP to check whether entered character is upper case or lower case??

#include<iostream>

using namespace std;

class Upper

{

char ch;

public: void check()

{

cout<<"Enter a Character \n";

cin>>ch;

if(ch>='A' && ch<='Z')

{

cout<<" is upper case\n";

}

else{

cout<<"is lower case \n";

}}

};

int main()

{

Upper u1;

u1.check();

}

12)WAP to change the case of a character(from upper to lower,lower to upper) ??

#include<iostream>

using namespace std;

class Change

{

char ch1,ch2,ch3;

public: void check()

{

cout<<"Enter characters \n";

cin>>ch1>>ch2,ch3;

ch3=ch1;

ch1=ch2;

ch2=ch3;

cout<<"Upper to lower \n"<<ch1;

cout<<"Lower to upper\n"<<ch2;

}

};

int main()

{

Change c1;

c1.check();

}

13)WAP to SWAP two numbers ??

#include<iostream>

using namespace std;

class Swap

{

int num1,num2,num3;

public: void check()

{

cout<<"Enter two numbers \n";

cin>>num1>>num2;

num3=num1;

num1=num2;

num2=num3;

cout<<"After swap \n"<<"num1 is \t"<<num1<<" \n num2 is \t"<<num2;

}

};

int main()

{

Swap s1;

s1.check();

}

14)WAP to check whether a character is vowel or consonant ??

#include<iostream>

using namespace std;

class Vowel

{

char c;

public: void check()

{

cout<<"Enter a Character \n";

cin>>c;

if(c=='a' || c=='e' || c=='i' || c=='o' || c=='u')

{

cout<<" is vowel \n";

}

else{

cout<<"is consonent \n";

}}

};

int main()

{

Vowel v1;

v1.check();

}

15)WAP to check a Leap year ??

#include<iostream>

using namespace std;

class Leap\_year

{

int year;

public: void check()

{

cout<<"Enter a year \n";

cin>>year;

if(year%4==0)

{

cout<<" year is Leep year\n";

}

else{

cout<<"year is not a leap year \n";

}}

};

int main()

{

Leap\_year l1;

l1.check();

}

16. WAP to check whether the average of five no is greater than 10 or not ??

#include<iostream>

using namespace std;

class Greater

{

int num1,num2,num3,num4,num5,avg;

public: void check()

{

cout<<"Enter 5 numbers\n";

cin>>num1>>num2>>num3>>num4>>num5;

avg=(num1+num2+num3+num4+num5)/5;

cout<<"Average is \n"<<avg<<endl;

if(avg>=10)

{

cout<<"Average is Greater than 10\n";

}

else{

cout<<"Average Not greater than 10\n";

}

}

};

int main()

{

Greater g1;

g1.check();

}

17)WAP to check whether the output of addition of two numbers is greater than 100 or not ??

#include<iostream>

using namespace std;

class Greater

{

int num,num1,num2,sum;

public: void check()

{

cout<<"Enter the numbers\n";

cin>>num1>>num2;

num=num1+num2;

cout<<"Sum is \n"<<num<<endl;

if(num>=100)

{

cout<<"Number is Greater than 100\n";

}

else{

cout<<"Not greater than 100\n";

}

}

};

int main()

{

Greater g1;

g1.check();

}

18. WAP to Swap Numbers without using 3rd variable ??

#include<iostream>

using namespace std;

class Swap

{

int num1,num2;

public: void check()

{

cout<<"Enter two numbers \n";

cin>>num1>>num2;

num1=num1+num2;

num2=num1-num2;

num1=num1-num2;

cout<<"After swap \n"<<"num1 is \t"<<num1<<" \n num2 is \t"<<num2;

}

};

int main()

{

Swap s1;

s1.check();

}

20)WAP to check the number is divisible by 7 or not ??

#include<iostream>

using namespace std;

class Divisible

{

int num;

public: void check()

{

cout<<"Enter the number\n";

cin>>num;

if(num%7==0)

{

cout<<"Number is divisible by 7\n";

}

else{

cout<<"Not divisible by 7\n";

}

}

};

int main()

{

Divisible d1;

d1.check();

}

21)WAP to check the number is divisible by 9 or not ??

#include<iostream>

using namespace std;

class Divisible

{

int num;

public: void check()

{

cout<<"Enter the number\n";

cin>>num;

if(num%9==0)

{

cout<<"Number is divisible by 9\n";

}

else{

cout<<"Not divisible by 9\n";

}

}

};

int main()

{

Divisible d1;

d1.check();

}

22. WAP to perform addition and multiplication of 2 no and then find the Greater value ??

#include<iostream>

using namespace std;

class Greater

{

int num1,num2,sum,mul;

public: void find()

{

cout<<"Enter 2 numbers\n";

cin>>num1>>num2;

sum=(num1+num2);

mul=(num1\*num2);

cout<<"Sum is \n"<<sum<<endl;

cout<<"Multiplication is\n"<<mul<<endl;

if(mul>=sum)

{

cout<<" Multiplication is Greater \n";

}

else{

cout<<"Addition is greater \n";

}

}

};

int main()

{

Greater g1;

g1.find();

}

23. WAP to calculate the least of 3 numbers ??

#include<iostream>

using namespace std;

class Least

{

int num1,num2,num3;

public: void calculate()

{

cout<<"Enter three numbers \n";

cin>>num1>>num2>>num3;

if(num1<num2 && num1<num3)

{

cout<<"num1 is Least \t";

}

else if(num2<num1 && num2<num3)

{

cout<<"num2 is Least \t";

}

else{cout<<"num3 is Least";}

}

};

int main()

{

Least l1;

l1.calculate();

}

24. WAP to display the grades of the student??

#include<iostream>

using namespace std;

class Student\_grades

{

int m;

public: void display()

{

cout<<"Enter marks \n";

cin>>m;

if(m>=90)

{

cout<<"Marks is greater than 90 \t";

cout<<"Grade A\n";

}

if(m>=80 && m<90)

{

cout<<"Marks is greater than 80 and less than 90 \t";

cout<<"Grade B\n";

}

if(m>=60 && m<80)

{

cout<<"Marks is greater than 60 and less than 80 \t";

cout<<"Grade c\n";

}

if(m>=45 && m<60)

{

cout<<"Marks is greater than 45 and less than 60 \t";

cout<<"Grade d\n";

}

if(m<45)

{

cout<<"Marks is less than 45 \t";

cout<<"Fail\n";

}

}

};

int main()

{

Student\_grades s1;

s1.display();

}