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Assignment 3

Q.1. Write a program to check whether a given number is positive or non-positive.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n;

printf("Enter A Number");

scanf("%d",&n);

if(n>)

{

printf("Positive Number");

}else

{

printf("Non Positive Number");

}

}

Q.2 Write A Program To Check Whether the Given Number Is Divisible by 5 or Not.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n;

printf("Enter A Number");

scanf("%d",&n);

if(n%5==0)

{

printf("\*\*The Given Number Is Divisible By 5");

}else

{

printf("\*\*The Givem Number Is Not Divisible By 5");

}

getch();

}

Q.3. Write a program to check whether a given number is an even

number or an odd number.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n;

printf("Enter A Number");

scanf("%d",&n);

if(n%2==0)

{

if(n==0)

{

printf("Not An Even And Not And Odd Number");

}else

printf("Even Number");

}else

{

printf("Odd Number");

}

getch();

}

Q.4. Write a program to check whether a given number is an even number or an odd number without using % operator.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n;

printf("Enter A Number");

scanf("%d",&n);

if(n%2==0)

{

if(n==0)

{

printf("Not An Even And Not And Odd Number");

}else

printf("Even Number");

}else

{

printf("Odd Number");

}

getch();

}

Q.5. Write a program to check whether a given number is a three-digit number or not.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n;

printf("Enter A Number");

scanf("%d",&n);

if(n<1000&&n>99)

{

printf("Three Digit Number");

}else

{

printf("The Given Number Is Not A Three Digit");

}

getch();

}

Q.6 Write a program to print greater between two numbers. Print one number of both are the same.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int a,b;

printf("Enter two Number\n");

scanf("%d%d",&a,&b);

if(a>b)

printf("Greater Number is %d",a);

else

{

if(a==b)

{

printf("Both Numbers Are Equal");

}else

{

printf("Greater Number Is %d",b);

}

}

getch();

}

.

Q.7. Write a program to check whether roots of a given quadratic equation are real & distinct, real & equal or imaginary roots

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int a,b,c,d;

printf("Enter Value Of a \n Enter Value of b\n Enter Value Of c\n");

scanf("%d%d%d",&a,&b,&c);

d=b\*b-4\*a\*c;

if(d>0)

{

printf("The Given Quadratic Equation Is Real And Distinct");

}else if(d==0)

{

printf("The Given Quadratic Equation Is Real And Equal");

}else if(d<0)

{

printf("The GIven Quadratic Equation Is Emaginary");

}

getch();

}

Q.8. Write a program to check whether a given year is a leap year or not.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n;

printf("Enter A Number ");

scanf("%d",&n);

n=n%100;

if(n%4==0)

{

printf("Leap Year");

}else

{

printf("Not A Leap Year");

}

getch();

}

Q.9. Write a program to find the greatest among three given numbers. Print number once if the greatest number appears two or three times.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int a,b,c;

printf("Enter Three Numbers\n");

scanf("%d%d%d",&a,&b,&c);

if(a>b&&a>c)

{

printf("greater Number Is %d",a);

}else if(b>c&&b>a)

{

printf("Greater Number is %d",b);

}else

{

printf("Greater Number Is %d",c);

}

getch();

}

Q.10. Write a program which takes the cost price and selling price of a product from the user. Now calculate and print profit or loss percentage.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

float cp,sp,profit,pp,lp,loss;

printf("Enter Cost Price\n");

scanf("%f",&cp);

printf("Enter Selling Price\n");

scanf("%f",&sp);

profit=sp-cp;

pp=profit/cp\*100;

loss=sp-cp;

lp=loss/cp\*100;

if(sp>cp)

printf("Your Profit Is %f%%",pp);

if(cp>sp)

printf("Your Loss Is %f%%",lp);

if(cp==sp)

printf("Your Selling Price = Cost Price \n No Profit Not A Loss");

getch();

}

Q.11. Write a program to take marks of 5 subjects from the user. Assume marks are given out of 100 and passing marks is 33. Now display whether the candidate passed the examination or failed.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int phy,chem,math,bio,eng,it;

printf("Enter Physics Marks\n");

scanf("%d",&phy);

printf("Enter chem Marks\n");

scanf("%d",&chem);

printf("Enter Math Marks\n");

scanf("%d",&math);

printf("Enter Bio Marks\n");

scanf("%d",&bio);

printf("Enter English Marks\n");

scanf("%d",&eng);

printf("Enter IT Marks\n");

scanf("%d",&it);

if(phy<100)

{

If(phy>33)

printf("You Pass In Physics\n");

else

printf("You Fail in Physics\n");

}

if(chem<100)

{

if(chem>33)

printf("You Pass In Chemestry\n");

else

printf("You Fail in Chemestry\n");

}

if(math<100)

{

if(math>33)

printf("You Pass In Math\n");

else

printf("You Fail in Math\n");

}

if(bio<100)

{

if(bio>33)

printf("You Pass In Bio\n");

else

printf("You Fail in Bio\n");

}

if(eng<100)

{

if(eng>33)

printf("You Pass In English\n");

else

printf("You Fail in English\n");

}

if(it<100)

{

if(it>33)

printf("You Pass In Information Technology\n");

else

printf("You Fail in Information Technology\n");

}

}

Q.12. Write a program to check whether a given alphabet is in uppercase or lowercase

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

char c;

printf("Enter A Alphabet\n");

scanf("%c",&c);

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

printf("Lowercase Alphabet");

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

printf("Uppercase Alphabet");

getch();

}

Q.13. Write a program to check whether a given number is divisible by 3 and divisible by 2.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n;

printf("Enter A Number\n");

scanf("%d",&n);

if(n%3==0&&n%3==0)

{

printf("The Given Number Is Divisible By 3 And 2");

}else

{

printf("The aGIven Numer Is Not Divisible By 3 And 2");

}

getch();

}

Q.14. Write a program to check whether a given number is divisible by 7 or divisible by 3.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n;

printf("Enter A Number\n");

scanf("%d",&n);

if(n%3==0||n%7==0)

{

printf("The Given Number Is Divisible By 7 OR 3");

}else

{

printf("The aGIven Numer Is Not Divisible By 7 OR 3");

}

getch();

}

Q.15. Write a program to check whether a given number is positive, negative or zero.

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

int n;

printf("Enter A Number\n");

scanf("%d",&n);

if(n>0||n<0)

{

if(n>0)

printf("Positive Number");

if(n<0)

printf("Negetive Number");

}else

printf("Number Is Zero");

getch();

}

Q.16. Write a program to check whether a given character is an alphabet (uppercase), an alphabet (lower case), a digit or a special character

Ans:

#include<stdio.h>

#include<conio.h>

main()

{

char n;

printf("Enter A Number\n");

scanf("%c",&n);

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

{

printf("Upper Case Alphabet");

}else if(n>='a'&&n<='z')

{

printf("Lowercase Ulphabet");

}else

printf("Special Character");

getch();

}

Q.17. Write a program which takes the length of the sides of a triangle as an input. Display whether the triangle is valid or not.

Ans:

#include<conio.h>

#include<stdio.h>

main()

{

int side1,side2,side3;

printf("Enter Three Sides Of Triangle\n");

scanf("%d%d%d",&side1,&side2,&side3);

if((side1+side2)>side3&&(side2+side3)>side1&&(side1+side3)>side2)

{

printf("Triangle Is Valid");

}else

printf("Triangle Is Not Valid");

getch();

}

Q.18. Write a program which takes the length of the sides of a triangle as an input. Display

Ans:

#include<conio.h>

#include<stdio.h>

main()

{

int i,n,jan,feb,march,epril,may,june,july,aug,sept,octo,nov,dis;

printf("Enter A Month Number\n");

scanf("%d",&n);

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

{

if(n==1)

{

printf("Month January \n");

printf("Number of Days 31\n");

}else if(n==2)

{

printf("Month February\n");

printf("Number of Days 28 But After 4 Years Will Be 29\n");

} else if(n==3)

{

printf("Month March\n");

printf("Number of Days 31");

} else if(n==4)

{

printf("Month Epril\n");

printf("Number of Days 30");

}else if(n==5)

{

printf("Month May\n");

printf("Number of Days 31");

}else if(n==6)

{

printf("Month June\n");

printf("Number of Days 30");

}else if(n==7)

{

printf("Month July\n");

printf("Number of Days 31");

}else if(n==8)

{

printf("Month August\n");

printf("Number of Days 31");

}else if(n==9)

{

printf("Month September\n");

printf("Number of Days 30");

}else if(n==10)

{

printf("Month October\n");

printf("Number of Days 31");

}else if(n==11)

{

printf("Month November\n");

printf("Number of Days 30");

}else if(n==12)

{

printf("Month December\n");

printf("Number of Days 31");

}

}else

{

printf("Not A Month ");

}

getch();

}