**MD.AKASH**

17.Write a C program to enter P, T, R and calculate Simple Interest.

#include <stdio.h>

int main()

{

float a,t,r,si;

printf("Enter amount time and rate.\n");

scanf("%f%f%f",&a,&t,&r);

si = (a\*t\*r)/100;

printf("Simple Interest: %.2f\n",si);

return 0;

}

18.Write a C program to enter P, T, R and calculate Compound Interest.

#include <stdio.h>

int main()

{

float a,t,r,ci;

printf("Enter amount time and rate.\n");

scanf("%f%f%f",&a,&t,&r);

ci = a\*pow(1+(r/100),t);

printf("Compound Interest: %.2f\n",ci);

return 0;

}

19.Write a C program to find maximum between two numbers.

#include <stdio.h>

int main()

{

float a,b;

printf("Please Enter any two number: \n");

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

if(a>b){

printf("The Maximum number is: %.2f\n",a);

}

else{

printf("The Maximum number is: %.2f\n",b);

}

return 0;

}

20.Write a C program to find maximum between three numbers.

#include <stdio.h>

int main()

{

float a,b,c;

printf("Enter three number:\n");

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

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

printf("The maximum number is: %.2f\n",a);

}

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

printf("The maximum number is: %.2f\n",b);

}

else{

printf("The maximum number is: %.2f\n",c);

}

return 0;

}

22.Write a C program to check whether a number is divisible by 5 and 11 or not.

#include<stdio.h>

int main()

{

int a;

printf("Please Enter a Number: \n");

scanf("%d",&a);

if((a%5==0)&&(a%11==0)){

printf("The number is divisible by 5 and 11: \n");

}

else{

printf("The number is not divisible by 5 and 11: \n");

}

return 0;

}

23.Write a C program to check whether a number is even or odd.

#include <stdio.h>

int main()

{

int a;

printf("Please Enter a Number: \n");

scanf("%d",&a);

if(a % 2 == 0){

printf("The Number is Even: \n");

}

else{

printf("The Number is Odd: \n");

}

return 0;

}

24.Write a C program to check whether a year is leap year or not.

#include <stdio.h>

int main()

{

int y;

printf("Please Enter a Year: \n");

scanf("%d",&y);

if((y % 4 == 0) && (y % 100 !=0 ) || (y % 400 == 0)){

printf("The year is leap year: \n");

}

else{

printf("The year is common year.\n");

}

return 0;

}

25.Write a C program to check whether a character is alphabet or not.

#include <stdio.h>

int main()

{

char input;

scanf("%c",&input);

if((input >= 'a' && input <= 'z') || (input >= 'A' && input <= 'Z')){

printf("Alphabet.\n");

}

else{

printf("Not alphabet.\n");

}

return 0;

}

26.Write a C program to input any alphabet and check whether it is vowel or consonant.

#include <stdio.h>

int main()

{

char ch;

scanf("%c",&ch);

if(ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u'||ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U'){

printf("The Character is Vowel.\n");

}

else{

printf("Consonant.\n");

}

return 0;

}

27.Write a C program to input any character and check whether it is alphabet, digit or special character.

#include <stdio.h>

int main()

{

char ch;

printf("Enter a character: \n");

scanf("%c",&ch);

if((ch >= 'a') && (ch <= 'z') || (ch >= 'A') && (ch <= 'Z')){

printf("Alphabet.\n");

}

else if(ch >= '0' && ch <= '9'){

printf("Digit.\n");

}

else{

printf("Special character.\n");

}

return 0;

}

28.Write a C program to check whether a character is uppercase or lowercase alphabet.

#include <stdio.h>

int main()

{

char ch;

printf("Enter Any character:\n");

scanf("%c",&ch);

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

printf("%c is lowercase.\n",ch);

}

else{

printf("%c is uppercase.\n",ch);

}

return 0;

}

29.Write a C program to input week number and print week day.

#include<stdio.h>

int main()

{

int n;

printf("Enter the week number.\n");

scanf("%d",&n);

if(n == 1){

printf("Saturday.\n");

}

else if(n == 2){

printf("Sunday.\n");

}

else if(n == 3){

printf("Monday.\n");

}

else if(n == 4){

printf("Tuesday.\n");

}

else if(n == 5){

printf("Wednesday.\n");

}else if(n == 6){

printf("Thursday.\n");

}

else if(n == 7){

printf("Friday.\n");

}

return 0;

}

//30.Write a C program to input month number and print number of days in that month.

#include <stdio.h>

int main()

{

int n;

printf("Enter month number.\n");

scanf("%d",&n);

if(n == 1 || n == 3 || n == 5 || n == 7 || n == 8 || n == 10 || n == 12){

printf("The month is 31 days.\n");

}

else if(n == 2){

printf("The month is 28/29 days.\n");

}

else if(n == 2){

printf("The month is 30 days.\n");

}

else if(n == 4 || n == 6 || n == 9 || n == 11){

printf("The month is 30 days.\n");

}

else{

printf("Something Wrong.\n");

}

return 0;

}

31.Write a C program to count total number of notes in given amount.

#include <stdio.h>

int main()

{

int a,th,fhu,hu,ft,tw,ten,f,two,one;

printf("Enter any amount.\n");

scanf("%d",&a);

th = a / 1000;

fhu = (a-(th\*1000)) / 500;

hu = (a-(th\*1000)-(fhu\*500)) / 100;

ft = (a-(th\*1000)-(fhu\*500)-(hu\*100)) / 50;

tw = (a-(th\*1000)-(fhu\*500)-(hu\*100)-(ft\*50)) / 20;

ten = (a-(th\*1000)-(fhu\*500)-(hu\*100)-(ft\*50)-(tw\*20)) / 10;

f = (a-(th\*1000)-(fhu\*500)-(hu\*100)-(ft\*50)-(tw\*20)-(ten\*10)) / 5;

two = (a-(th\*1000)-(fhu\*500)-(hu\*100)-(ft\*50)-(tw\*20)-(ten\*10)-(f\*5)) / 2;

one = (a-(th\*1000)-(fhu\*500)-(hu\*100)-(ft\*50)-(tw\*20)-(ten\*10)-(f\*5)-(two\*2)) / 1;

printf("1000 = %d\n 500 = %d\n 100 = %d\n 50 = %d\n 20 = %d\n 10 = %d\n 5 = %d\n 2 = %d\n 1 = %d\n",th,fhu,hu,ft,tw,ten,f,two,one);

return 0;

}

32.Write a C program to input angles of a triangle and check whether triangle is valid or not.

#include<stdio.h>

int main()

{

int a,b,c,n;

printf("Input angle of triangle. \n");

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

n = a + b + c;

if(n == 180){

printf("Triangle is valid.\n");

}

else{

printf("The Triangle is invalid.\n");

}

return 0;

}

33.Write a C program to input all sides of a triangle and check whether triangle is valid or not.

#include <stdio.h>

int main()

{

int a,b,c;

printf("Input all sides of a triangle.\n");

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

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

printf("Triangle is valid.\n");

}

else{

printf("Triangle is invalid.\n");

}

return 0;

}

34.Write a C program to check whether the triangle is equilateral, isosceles or scalene triangle.

#include <stdio.h>

int main()

{

int a,b,c;

printf("Input triangle sides.\n");

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

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

printf("Equilateral triangle.\n");

}

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

printf("Isosceles triangle.\n");

}

else{

printf("Scalene triangle.\n");

}

}