**1.**Write a C program to accept two integers and check whether they are equal or not

#include <stdio.h>

main()

{

int int1, int2;

printf("Input the values for Number1 and Number2 : ");

scanf("%d %d", &int1, &int2);

if (int1 == int2)

printf("Number1 and Number2 are equal\n");

else

printf("Number1 and Number2 are not equal\n");

}

**2.**Write a C program to check whether a given number is even or odd.

#include <stdio.h>

main()

{

int num1, rem1;

printf("Input an integer : ");

scanf("%d", &num1);

rem1 = num1 % 2;

if (rem1 == 0)

printf("%d is an even integer\n", num1);

else

printf("%d is an odd integer\n", num1);

}

**3.** Write a C program to check whether a given number is positive or negative.

#include <stdio.h>

main()

{

int num;

printf("Input a number :");

scanf("%d", &num);

if (num >= 0)

printf("%d is a positive number \n", num);

else

printf("%d is a negative number \n", num);

}

**4.**Write a C program to find whether a given year is a leap year or not

#include <stdio.h>

main()

{

int chk\_year;

printf("Input a year :");

scanf("%d", &chk\_year);

if ((chk\_year % 400) == 0)

printf("%d is a leap year.\n", chk\_year);

else if ((chk\_year % 100) == 0)

printf("%d is a not leap year.\n", chk\_year);

else if ((chk\_year % 4) == 0)

printf("%d is a leap year.\n", chk\_year);

else

printf("%d is not a leap year \n", chk\_year);

}

**5.**Write a C program to read the age of a candidate and determine whether it is eligible for casting

#include <stdio.h>

main()

{

int vote\_age;

printf("Input the age of the candidate : ");

scanf("%d",&vote\_age);

if (vote\_age<18)

{

printf("Sorry, You are not eligible to caste your vote.\n");

printf("You would be able to caste your vote after %d year.\n",18-vote\_age);

}

else

printf("Congratulation! You are eligible for casting your vote.\n");

}

**6.**Write a C program to read the value of an integer m and display the value of n is 1 when m is

#include <stdio.h>

main()

{

int m,n;

printf("Input the value of m :");

scanf("%d",&m);

if(m!=0)

if(m>0)

n=1;

else

n=-1;

else

n=0;

printf("The value of m = %d \n",m);

printf("The value of n = %d \n",n);

}

**7.** Write a C program to accept the height of a person in centimeter and categorize the person

#include <stdio.h>

main()

{

float PerHeight;

printf("Input the height of the person (in centimetres) :");

scanf("%f", &PerHeight);

if (PerHeight < 150.0)

printf("The person is Dwarf. \n");

else if ((PerHeight >= 150.0) && (PerHeight < 165.0))

printf("The person is average heighted. \n");

else if ((PerHeight >= 165.0) && (PerHeight <= 195.0))

printf("The person is taller. \n");

else

printf("Abnormal height.\n");

}

8. Write a C program to find the largest of three numbers. **using Nested if**

#include <stdio.h>

main()

{

int num1, num2, num3;

printf("Input the values of three numbers : ");

scanf("%d %d %d", &num1, &num2, &num3);

printf("1st Number = %d,\t2nd Number = %d,\t3rd Number = %d\n", num1, num2, num3);

if (num1 > num2)

{

if (num1 > num3)

{

printf("The 1st Number is the greatest among three. \n");

}

else

{

printf("The 3rd Number is the greatest among three. \n");

}

}

else if (num2 > num3)

printf("The 2nd Number is the greatest among three \n");

else

printf("The 3rd Number is the greatest among three \n");

}

9. Write a C program to find the largest of three numbers.

#include <stdio.h>

main()

{

int num1, num2, num3;

printf("Input the values of three numbers : ");

scanf("%d %d %d", &num1, &num2, &num3);

printf("1st Number = %d,\t2nd Number = %d,\t3rd Number = %d\n", num1, num2, num3);

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

printf("The 1st Number is the greatest among three. \n");

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

printf("The 2nd Number is the greatest among three \n");

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

printf("The 3rd Number is the greatest among three. \n");

}

**10.**Write a C program to read roll no, name and marks of three subjects and calculate the total, percentage and division

#include <stdio.h>

#include <string.h>

main()

{

int rl,phy,che,ca,total;

float per;

char nm[20],div[10];

printf("Input the Roll Number of the student :");

scanf("%d",&rl);

printf("Input the Name of the Student :");

scanf("%s",nm);

printf("Input the marks of Physics, Chemistry and Computer Application : ");

scanf("%d%d%d",&phy,&che,&ca);

total = phy+che+ca;

per = total/3.0;

if (per>=60)

strcpy(div,"First");

else

if (per<60&&per>=48)

strcpy(div,"Second");

else

if (per<48&&per>=36)

strcpy(div,"Pass");

else

strcpy(div,"Fail");

printf("\nRoll No : %d\nName of Student : %s\n",rl,nm);

printf("Marks in Physics : %d\nMarks in Chemistry : %d\nMarks in Computer Application : %d\n",phy,che,ca);

printf("Total Marks = %d\nPercentage = %5.2f\nDivision = %s\n",total,per,div);

}

11. Write a C program to read temperature in centigrade and display a suitable message according to temperature state below.  
Temp < 0 then Freezing weather  
Temp 0-10 then Very Cold weather  
Temp 10-20 then Cold weather  
Temp 20-30 then Normal in Temp  
Temp 30-40 then Its Hot  
Temp >=40 then Its Very Hot

#include <stdio.h>

main()

{

int tmp;

printf("Input days temperature : ");

scanf("%d",&tmp);

if(tmp<0)

printf("Freezing weather.\n");

else if(tmp<10)

printf("Very cold weather.\n");

else if(tmp<20)

printf("Cold weather.\n");

else if(tmp<30)

printf("Normal in temp.\n");

else if(tmp<40)

printf("Its Hot.\n");

else

printf("Its very hot.\n");

}

12. Write a C program to check whether a character is an alphabet, digit or special character.

#include <stdio.h>

main()

{

char sing\_ch;

printf("Input a character: ");

scanf('%c', &sing\_ch);

if((sing\_ch>='a' && sing\_ch<='z') || (sing\_ch>='A' && sing\_ch<='Z'))

printf("This is an alphabet.\n");

else if(sing\_ch>='0' && sing\_ch<='9') /\* whether it is digit \*/

printf("This is a digit.\n");

else

printf("This is a special character.\n");

}

12. Write a program in C to read any day number in integer and display day name in the word.

#include <stdio.h>

main()

{

int dayno;

printf("Input Day No : ");

scanf("%d",&dayno);

switch(dayno)

{

case 1:

printf("Monday \n");

break;

case 2:

printf("Tuesday \n");

break;

case 3:

printf("Wednesday \n");

break;

case 4:

printf("Thursday \n");

break;

case 5:

printf("Friday \n");

break;

case 6:

printf("Saturday \n");

break;

case 7:

printf("Sunday \n");

break;

default:

printf("Invalid day number. \nPlease try again ....\n");

break;

}

}

13. Write a program in C to read any digit, display in the word.

#include <stdio.h>

main()

{

int cdigit;

printf("Input Digit(0-9) : ");

scanf("%d",&cdigit);

switch(cdigit)

{

case 0:

printf("Zero\n");

break;

case 1:

printf("one\n");

break;

case 2:

printf("Two\n");

break;

case 3:

printf("Three\n");

break;

case 4:

printf("Four\n");

break;

case 5:

printf("Five\n");

break;

case 6:

printf("Six\n");

break;

case 7:

printf("Seven\n");

break;

case 8:

printf("Eight\n");

break;

case 9:

printf("Nine\n");

break;

default:

printf("invalid digit. \nPlease try again ....\n");

break;

}

}

14. Write a program in C to read any Month Number in integer and display Month name in the word.

#include <stdio.h>

main()

{

int monno;

printf("Input Month No : ");

scanf("%d",&monno);

switch(monno)

{

case 1:

printf("January\n");

break;

case 2:

printf("February\n");

break;

case 3:

printf("March\n");

break;

case 4:

printf("April\n");

break;

case 5:

printf("May\n");

break;

case 6:

printf("June\n");

break;

case 7:

printf("July\n");

break;

case 8:

printf("August\n");

break;

case 9:

printf("September\n");

break;

case 10:

printf("October\n");

break;

case 11:

printf("November\n");

break;

case 12:

printf("December\n");

break;

default:

printf("invalid Month number. \nPlease try again ....\n");

break;

}

}

15. Write a program in C which is a Menu-Driven Program to compute the area of the various geometrical shape.

#include <stdio.h>

void main ()

{

int choice,r,l,w,b,h;

float area;

printf("Input 1 for area of circle\n");

printf("Input 2 for area of rectangle\n");

printf("Input 3 for area of triangle\n");

printf("Input your choice : ");

scanf("%d",&choice);

switch(choice)

{

case 1:

printf("Input radious of the circle : ");

scanf("%d",&r);

area=3.14\*r\*r;

break;

case 2:

printf("Input length and width of the rectangle : ");

scanf("%d%d",&l,&w);

area=l\*w;

break;

case 3:

printf("Input the base and hight of the triangle :");

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

area=.5\*b\*h;

break;

}

printf("The area is : %f\n",area);

}

15 Write a program in C which is a Menu-Driven Program to perform a simple calculation.

#include <stdio.h>

main()

{

int num1,num2,opt;

printf("Enter the first Integer :");

scanf("%d",&num1);

printf("Enter the second Integer :");

scanf("%d",&num2);

printf("\nInput your option :\n");

printf("1-Addition.\n2-Substraction.\n3-Multiplication.\n4-Division.\n5-Exit.\n");

scanf("%d",&opt);

switch(opt)

{

case 1:

printf("The Addition of %d and %d is: %d\n",num1,num2,num1+num2);

break;

case 2:

printf("The Substraction of %d and %d is: %d\n",num1,num2,num1-num2);

break;

case 3:

printf("The Multiplication of %d and %d is: %d\n",num1,num2,num1\*num2);

break;

case 4:

if(num2==0)

printf("The second integer is zero. Devide by zero.\n");

else

printf("The Division of %d and %d is : %d\n",num1,num2,num1/num2);

break;

case 5:

break;

default:

printf("Input correct option\n");

break;

}

}