If – Else Programs

**Q1. Write a program to accept an integer and check if it is even or odd.**

#include<stdio.h>

int main(){

int num;

printf("Enter the Number");

scanf("%d",&num);

if(num%2==0){

printf("Number is even");

}

else{

printf("Number is Odd");

}

return 0;

}

**Output**

Enter the Number = 5

Number is Odd

**Q2 Write a program to accept a number and check if it is divisible by 5 and 7.**

#include<stdio.h>

int main(){

int num;

printf("Enter the Number");

scanf("%d",&num);

if(num%5==0&&num%7==0){

printf("Number is divisible by 5 and 7");

}

else{

printf("Number is not divisible by 5 and 7");

}

return 0;

}

**Output**

Enter the Number = 35

Number is divisible by 5 and 7

**Q3 - Write a program, which accepts annual basic salary of an employee and calculates and displays the Income tax as per the following rules.**

**Basic: < 1, 50,000 Tax = 0 1,50,000 to 3,00,000 Tax = 20% >3,00,000 Tax = 30%**

#include<stdio.h>

int main(){

int salary;

printf("Enter basic salary of employee = ");

scanf("%d",&salary);

if(salary<150000){

salary = salary - 0;

printf("Income Tax as per slab rate = %d \n",salary);

}

if (salary >150000 && salary <300000)

{

salary = salary - 0.2 \* salary;

printf("Income Tax as per 20 percent slab rate = %d \n",salary);

}

if(salary > 300000){

salary = salary - 0.3 \* salary;

printf("Income Tax as per 30 percent slab rate = %d \n",salary);

}

return 0;

}

**Output**

Enter basic salary of employee = 325000

Income Tax as per 30 percent slab rate = 227500

**Q4 - Accept a lowercase character from the user and check whether the character is a vowel or consonant. (Hint: a, e, i, o, u are vowels)**

#include<stdio.h>

int main(){

char ch ,a,e,i,o,u;

printf("Enter the character = ");

scanf("%c",&ch);

if (ch==97||ch==101||ch==105||ch==111||ch==117)

{

printf("Enter character is vowel");

}

else

{

printf("Enter character is consonant");

}

return 0;

}

**Output**

Enter the character = u

Enter character is vowel

**Q5 - Write a C program to input angles of a triangle and check whether triangle is valid or not.**

#include<stdio.h>

int main(){

int angle1,angle2 , angle3 ,Angle;

printf("Enter the first angle of triangle = ");

scanf ("%d",&angle1);

printf("Enter the second angle of triangle = ");

scanf ("%d",&angle2);

printf("Enter the third angle of triangle = ");

scanf ("%d",&angle3);

Angle = angle1 + angle2 + angle3;

if (Angle==180)

{

printf("This angle is valid triangle");

}

else

{

printf("This angle is not valid triangle");

}

return 0 ;

}

**Output**

Enter the first angle of triangle = 30

Enter the second angle of triangle = 30

Enter the third angle of triangle = 52

This angle is not valid triangle

**Q6 - Write a C program to check whether a entered character is uppercase or lowercase alphabet**

#include<stdio.h>

int main(){

char ch;

printf("Enter the character for check = ");

scanf("%c", &ch);

if(ch>=65&&ch<=90){

printf("Character is Uppercase");

}

if (ch>=97&&ch<=122)

{

printf("Character is Smallcase");

}

return 0;

}

**Output**

Enter the character for check = D

Character is Uppercase

**Q7 - Write a C program to accept a character and invert the case of it.**

#include<stdio.h>

int main(){

char ch;

printf("Enter the charcter = ");

scanf("%c",&ch);

if(ch>=65&&ch<=90){

ch = ch + 32;

printf("This Uppercase character converted to lowercase = %c \n",ch);

}

else {

ch = ch - 32;

printf("This lowercase character converted to Uppercase = %c \n",ch);

}

return 0;

}

**Output**

Enter the charcter = r

This lowercase character converted to Uppercase = R

**Q8 - Write a program to accept 3 numbers and compute minimum and maximum from them.**

#include<stdio.h>

int main(){

int num1 ,num2, num3,min, max;

printf("Enter the Any Threee Natural Number =");

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

max = num1;

if (num1<num2)

{

max = num2;

}

if (num2<num3)

{

max=num3;

}

printf("Maximum number in three number = %d" ,max);

return 0;

}

**Output**

Enter the Any Threee Natural Number =15

155

286

Maximum number in three number = 286