**Q1// WAP to calc the total bill and apply the discount of 12% when the total bill exceeds 500 other discount is 3%**

#include<stdio.h>

void main()

{

float p1,p2,p3,p4,Total,disc;

printf("\nplz Enter the First product price");

scanf("%f",&p1);

printf("\nplz Enter the Second product price");

scanf("%f",&p2);

printf("\nplz Enter the Third product price");

scanf("%f",&p3);

printf("\nplz Enter the Fourth product price");

scanf("%f",&p4);

Total=p1+p2+p3+p4;

if(Total>500)

{

printf("Applying discount of 12%");

disc=Total\*0.12;

}

else{

printf("Applying discount of 3%");

disc=Total\*0.03;

}

printf("\nTotal Bill=%f",Total);

printf("\nDiscount=%f",disc);

printf("\nPay rs=%f",(Total-disc));

}

**(using conditional operator)**

**int main()**

**{**

**float a,b,c,tot,dis;**

**printf("\n Enter the price of 3 items: ");**

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

**tot=a+b+c;**

**(tot>1000) ? (dis=tot\*0.07) : (dis=tot\*0.03) ;**

**printf("\n Total Bill: %0.2f",tot);**

**printf("\n Discount: %0.2f",dis);**

**printf("\n Pay Rs: %0.2f",(tot-dis));**

**return 0;**

**}**

**Q2// WAP to find the entered number is even or odd, (Using only if statement)**

**- when no is even and greater than 10 then add 5 in it otherwise multi. by 3**

**- when no is odd and greater than 20 then add div it by 3 otherwise add 100 in it.**

#include<stdio.h>

void main()

{

int no;

float ans;

printf("Plz Enter the number\n");

scanf("%d",&no);

if(no%2==0)

{

printf("Number is Even");

if(no>10)

{

ans=no+5;

printf("\nNo is greater than 10 then Adding 5:%f",ans);

}

else

{

ans=no\*3;

printf(" No is not greater thatn 10 so Multipying no 3:%f",ans);

}

}

else

{

printf("\nNumber is odd");

if(no>20)

{

ans=no/3;

printf("\nNo is greater than 20 then div 3:%f",ans);

}

else

{

ans=no+100;

printf("\nNo is less than 20 so add 100:%f",ans);

}

}

}

**Q3// WAP to find the max from 3 nos using if else nesting(using if else)**

#include<stdio.h>

void main()

{

int a,b,c;

printf("Enter 1st number\n");

scanf("%d",&a);

printf("Enter 2nd number\n");

scanf("%d",&b);

printf("Enter 3rd number\n");

scanf("%d",&c);

if(a>b)

{

if(a>c)

{

printf("a is maximum number:%d",a);

}

else

{

printf("c is maximum number:%d",c);

}

}

else

{

if(b>c)

{

printf("b is a maximum number:%d",b);

}

else

{

printf("c is maximum number :%d",c);

}

}

}

**Q4// Enter any no thw keyboard and find it is div by 3 or 5 or both or not by both - use if else nesting**

#include<stdio.h>

void main()

{

int no;

printf("Enter number\n");

scanf("%d",&no);

if(no%3==0)

{

if(no%5==0)

{

printf("Divisible by both 3 or 5\n");

}

else

{

printf("Divisible by only 3");

}

}

else

{

if(no%5==0)

{

printf("Divisible by only 5");

}

else

{

printf("Not divisible by both");

}

}

}

**Q5// WAP to the position of employee in the company using the salary.(if else)**

**upto 1K --> Worker**

**1K - 3K --> Jr**

**3K - 5K --> Sr**

**5K - 7K --> Dr**

**7K Onward --> CEO**

#include <stdio.h>

void main()

{

int sal;

printf("\n Enter the salary of employee: ");

scanf("%d",&sal);

if(sal<=1000)

{

printf("Worker");

}

else

{

if(sal>1000 && sal<=3000)

{

printf("Jr");

}

else

{

if(sal>3000 && sal<=5000)

{

printf("Sr");

}

else

{

if(sal>5000 && sal<=7000)

{

printf("Dr");

}

else

{

printf("CEO");

}

}

}

}

}

**Q6// WAP to convert the temp from F to Deg.**

**formula: (0°C × 9/5) + 32 = 32°F**

**(°F − 32) / 1.8 = °C**

#include <stdio.h>

#include <stdlib.h>

int main()

{

float celsius,fehrenhite;

printf("Enter the temp in fehrenhite: ");

scanf("%f",&fehrenhite);

celsius = (fehrenhite -32)/1.8 ;

printf("temp in cesius is: %f",celsius);

return 0;

}

**Q7// Enter the PCM marks of student and calculate the PCM total and percentage**

**// when he is pass otherwise just display student is fail.**

#include <stdio.h>

#include <stdlib.h>

void main()

{

int phy,chem,math,tot;

float per;

printf("Enter phy marks:\n");

scanf("%d",&phy);

printf("Enter chem marks:\n");

scanf("%d",&chem);

printf("Enter math marks:\n");

scanf("%d",&math);

tot=phy+chem+math;

per=tot/3;

if(per>35)

{

printf("Congratulations you are pass!!Best luck for your future\n Percentage:%f ",per);

}

else{

printf("Sorry you are fail!!Trying next time\n Percentage:%f ",per);

}

}

**Q8// Enter the no thw keyboard and display menu to perform following operations**

**// option 1 - to check the number is positive or negative.**

**// option 2 - to check number is divisible by 5 or not.**

#include<stdio.h>

void main()

{

int opt,no;

printf("To check number is positive or negative Plz enter 1\n To check number is divisible by 5 or not plz enter 2\n");

scanf("%d",&opt);

if(opt==1)

{

printf("Plz enter a number\n");

scanf("%d",&no);

if(no>0)

{

printf("Number is positive\n");

}

else

{

printf("Number is negative\n");

}

}

else if(opt==2)

{

printf("plz enter a number\n");

scanf("%d",&no);

if(no%5==0)

{

printf("Number is divisible by 5");

}

else{

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

}

}

else{

printf("Plz enter valid option!!\n");

}

}

**Q9// There are another 3 different ways can be used to take the character as a input**

**- using getch(), getche() and getchar()**

#include<stdio.h>

void main()

{

char ch;

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

ch=getch(); // will not echo(display) entered character at the time of input and not wait for enter key

printf("\n Entered character is: %c",ch);

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

ch=getche(); // will echos(displays) entered character at the time of input and not wait for enter key

printf("\n Entered character is: %c",ch);

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

ch=getchar(); // will echo(display) entered character at the time of input and wait for enter key

printf("\n Entered character is: %c",ch);

}

**Q10 // Enter the co-ordinates of point in 2D system, and display the exact location of that point.**

**There are 7 different possibilities.**

#include<stdio.h>

void main()

{

int x,y;

printf("Enter x axis no\n");

scanf("%d",&x);

printf("Enter y axis no\n");

scanf("%d",&y);

if(x>0 && y>0)

{

printf("First Quadrant\n");

}

else if(x<0 && y>0)

{

printf("Second quadrant\n");

}

else if(x<0 && y<0)

{

printf("Third Quadrant\n");

}

else if(x>0 && y<0)

{

printf("Fourth Quadrant\n");

}

else if(x==0 && y!=0)

{

printf("Point is in y axis");

}

else if(y==0 && x!=0)

{

printf("Point is in x axis");

}

else{

printf("Origin");

}

}

**Q11 // Enter any character and display it is ucase, lcase, digit or special symbol (use ladder)**

#include<stdio.h>

void main()

{

char ch;

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

ch=getchar();

if(ch>=65&&ch<=90) // if(ch>='A'&&ch<='Z')

{

printf("Entered character: UCASE");

}

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

{

printf("Entered character: LCASE");

}

else if(ch>=48&&ch<=57)

{

printf("Entered character: DIGIT");

}

else

{

printf("Entered character: Special Symbol");

}

}

**Q12 // Enter the no and just add all digits in it.**

**e.g. 148 -> 8+4+1 ==> 13**

#include<stdio.h>

void main()

{

int no,sum=0,rem;

printf("plz enter number\n");

scanf("%d",&no);

for( ; no!=0; )

{

rem=no%10;

sum=sum+rem;

no=no/10;

}

printf("Sum=%d",sum);

}

**Q13 // WAP to Reverse the no entered thw keyboard.**

**e.g.**

**395 --> 593**

**395 is formed as no rem rev**

**0**

**5 \* 10^0 = 5 395 5 5**

**9 \* 10^1 = 90 39 9 59**

**3 \* 10^2 = 300 3 3 593**

**--------- 0**

**395**

#include<stdio.h>

void main()

{

int no,rev=0,rem;

printf("plz enter number\n");

scanf("%d",&no);

for( ; no!=0 ; )

{

rem=no%10;

rev=(rev\*10)+rem;

no=no/10;

}

printf("Reverse=%d",rev);

}

**Q14 // Enter any no and count digits from it**

**e.g.**

**no=1385 Digit Count: 4**

#include<stdio.h>

void main()

{

int no,cnt,rem;

printf("plz enter number\n");

scanf("%d",&no);

for( cnt=0; no!=0 ; no=no/10)

{

rem=no%10;

cnt++;

}

printf("Count =%d",cnt);

}

**Q15 // Enter any number and count the even digits in that number**

**e.g.**

**no=34562, Even Digit Count: 3**

#include<stdio.h>

void main()

{

int no,cnt,rem,even;

printf("plz enter number\n");

scanf("%d",&no);

for( cnt=0; no!=0 ; no=no/10)

{

rem=no%10;

if(rem%2==0)

{

cnt++;

}

}

printf("Count =%d",cnt);

}

**Q16 // WAP To find max digit in a number**

**3856 ---> ans: 8**

#include<stdio.h>

void main()

{

int no,rem,max=0;

printf("plz enter number\n");

scanf("%d",&no);

for( ; no!=0 ;no=no/10 )

{

rem=no%10;

if(rem>max)

{

max=rem;

}

}

printf("Max=%d",max);

}

**Q17 // Enter any no and add the even and odd digits from it separately**

**24385 ==> 5 + 3 = 8**

**8 + 4 + 2 = 14**

#include<stdio.h>

void main()

{

int no,rem,esum=0,osum=0,allsum=0;

printf("plz enter number\n");

scanf("%d",&no);

for( ; no!=0 ;no=no/10 )

{

rem=no%10;

if(rem%2==0)

{

esum=esum+rem;

}

else{

osum=osum+rem;

}

allsum=allsum+rem;

}

printf("Even sum=%d\n",esum);

printf("Odd sum=%d\n",osum);

printf("All no sum=%d\n",allsum);

}

**Q18 // Enter the number and add the alternate digit from it.**

**no=28416 ==> 6+4+2 = 12**

**1+8 = 9**

#include<stdio.h>

void main()

{

int no,s1=0,s2=0,flag=0,rem;

printf("plz enter number\n");

scanf("%d",&no);

for( ; no!=0 ; no=no/10)

{

rem=no%10;

if(flag==0)

{

s1=s1+rem;

flag=1;

}

else

{

s2=s2+rem;

flag=0;

}

}

printf("s1=%d \n s2=%d \n",s1,s2);

}

**Q19 // Enter the number and find its factorial**

**no=5 5! = 5 \* 4 \* 3 \* 2 \* 1 ==> 120**

#include<stdio.h>

void main()

{

int no,fact=1,i=1;

printf("plz enter number\n");

scanf("%d",&no);

while(i<=no)

{

fact=fact\*i;

i++;

}

printf("factorial=%d",fact);

}

**Q20 // WAP to find the missing digits from the number 3951 --> list of missing digits: 0 2 4 6 7 8**

#include <stdio.h>

#include <stdlib.h>

void main()

{

int no,tmp,dg,flg,rem;

printf("\n Enter the no: ");

scanf("%d",&no);

tmp=no;

printf("\n Missing Digits: ");

for(dg=0;dg<10;dg++)

{

no=tmp;

flg=0;

while(no!=0)

{

rem=no%10;

no=no/10;

if(rem==dg)

{

flg=1;

break;

}

}

if(flg==0)

printf("%5d",dg);

}

}

**Q21 // WAP to find the rep of each digit 188311 --> - 1 rep 3 times**

**- 8 rep 2 times**

#include <stdio.h>

#include <stdlib.h>

void main()

{

int no,tmp,dg,cnt,rem;

printf("\n Enter the no: ");

scanf("%d",&no);

tmp=no;

for(dg=0;dg<10;dg++)

{

no=tmp;

cnt=0;

while(no!=0)

{

rem=no%10;

no=no/10;

if(rem==dg)

{

cnt++;

}

}

if(cnt>1)

printf("\n %5d is present %5d times",dg,cnt);

}

}

**Q22 // WAP to find the entered number is Armstrong or not**

#include <stdio.h>

#include <stdlib.h>

void main()

{

int no,dc=0,tmp,sum=0,a,i,rem;

printf("\n Enter any no: ");

scanf("%d",&no);

tmp=no;

// Digit Count

while(no!=0)

{

dc++;

no=no/10;

}

// calc digit^dc

no=tmp;

while(no!=0)

{

rem=no%10;

a=1;

i=0;

while(i<dc)

{

a=a\*rem;

i++;

}

sum=sum+a;

no=no/10;

}

if(sum==tmp)

{

printf("\n Number is Armstrong");

}

else

{

printf("\n Number is Not Armstrong");

}

}

**Q23// WAP to display the list of Armstrong numbers from range 10 – 10000**

#include <stdio.h>

#include <stdlib.h>

void main()

{

int no,dc,tmp,rem,a,i,sum;

printf("\n List of Armstrong No: ");

no=10;

while(no<=10000)

{

tmp=no;

for(dc=0;no!=0;no=no/10,dc++);

//printf("\n Digit Count: %d",dc);

sum=0;

no=tmp;

while(no!=0)

{

rem=no%10;

no=no/10;

a=1;

i=0;

while(i<dc)

{

a=a\*rem;

i++;

}

sum=sum+a;

}

no=tmp;

if(tmp==sum)

printf("%5d",tmp);

no++;

}

}

**Q24// WAP to generate the max number using the digits of entered number**

**4936 --> 9643**

#include <stdio.h>

#include <stdlib.h>

void main()

{

int no,d,tmp,rev=0;

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

scanf("%d",&no);

tmp=no;

for(d=9;d>=0;d--)

{

no=tmp;

while(no!=0)

{

if( (no%10) ==d )

{

rev=(rev\*10)+(no%10);

}

no=no/10;

}

}

printf("\n Max number using digits of %d is %d",tmp,rev);

getch();

}

**Q25//Write a C program to enter length and breadth of a rectangle and find its perimeter.**

#include<stdio.h>

void main()

{

float length,Width,Perimeter;

printf("Enter Length of Rectangle\n");

scanf("%f",&length);

printf("Enter Width of Rectangle\n");

scanf("%f",&Width);

Perimeter=(length + Width)\*2;

printf("Perimeter of Rectangle is :%f",Perimeter);

}

**Q26//Write a C program to enter length and breadth of a rectangle and find its area.**

#include<stdio.h>

void main()

{

float Length,Width,Area;

printf("Enter length of a Rectangle :");

scanf("%f",&Length);

printf("Enter Width of a Rectangle :");

scanf("%f",&Width);

Area=Length\*Width;

printf("Area of a rectangle is:%f\n",Area);

}

**Q27//Write a C program to enter radius of a circle and find its diameter, circumference**

**//and area**

#include<stdio.h>

void main()

{

float radius,Diameter,circumference,Area;

printf("Enter Radius of a circle :\n");

scanf("%f",&radius);

Diameter=2\*radius;

circumference=(2\*(3.14))\*radius;

Area=(3.14)\*radius\*radius;

printf("Diameter of a circle is: %f\n",Diameter);

printf("Circumference of a circle is: %f\n",circumference);

printf("Area of a circle is: %f\n",Area);

}

**Q28//Write a C program to enter length in centimeter and convert it into meter and**

**//kilometer.**

#include<stdio.h>

void main()

{

float Length ,meter,kilometer;

printf("Enter Length in centimeter :\n");

scanf("%f",&Length);

meter=Length/100;

kilometer=Length/100000;

printf("Meter : %f\n",meter);

printf("Kilometer :%f\n",kilometer);

}

**Q29//Write a C program to enter temperature in Celsius and convert it into Fahrenheit.**

#include<stdio.h>

void main()

{

float celsius,fahrenheit;

printf("Enter Celisus :\n");

scanf("%f",&celsius);

fahrenheit=(celsius \* 9/5)+32;

printf("fahrenheit:%f",fahrenheit);

}

**Q30//Write a C program to enter temperature in Fahrenheit and convert to Celsius**

#include<stdio.h>

void main()

{

float celsius,fahrenheit;

printf("Enter fahrenheit :\n");

scanf("%f",&fahrenheit);

celsius=(fahrenheit - 32) \* (5.0/9.0);

printf("celsius:%f",celsius);

}

**Q31//Write a C program to convert days into years, weeks and days.**

#include<stdio.h>

void main()

{

float day,weeks,years;

printf("Enter Days :\n");

scanf("%f",&day);

weeks=day/7;

years=day/365;

printf("Weeks is:%f\n",weeks);

printf("Years is:%f\n",years);

}

**Q32//Write a C program to find power of any number x ^ y.**

#include<stdio.h>

void main()

{

int x,y,power,i,ans;

printf("Enter Number :\n");

scanf("%d",&x);

printf("Enter power of the number :\n");

scanf("%d",&y);

i=1;

ans=1;

while(y>=i)

{

ans=ans\*x;

i++;

}

printf("Ans :%d",ans);

}

**Q33//Write a C program to enter any number and calculate its square root**

#include<stdio.h>

void main()

{

/\*

int num,cnt,odd;

printf("Enter Number :\n");

scanf("%d",&num);

odd=1;

cnt=0;

while(num!=0)

{

num=num-odd;

odd=odd+2;

cnt++;

}

printf("Square Root :%d",cnt);

\*/

int no,i;

printf("Enter Number :\n");

scanf("%d",&no);

for(i=0;i<=no/2;i++)

{

if(no==i\*i)

{

printf("%d",i);

break;

}

}

}

**Q34//Write a C program to enter two angles of a triangle and find the third angle.**

#include<stdio.h>

void main()

{

int angle1,angle2,angle3;

printf("Enter 1st Angle:\n");

scanf("%d",&angle1);

printf("Enter 2nd Angle:\n");

scanf("%d",&angle2);

angle3=180-(angle1+angle2);

printf("third angle is :%d",angle3);

}

**Q35//Write a C program to enter base and height of a triangle and find its area.**

#include<stdio.h>

void main()

{

float base,height,Area;

printf("Enter Base of Triangle:\n");

scanf("%f",&base);

printf("Enter height of Triangle:\n");

scanf("%f",&height);

Area=(1.0/2.0)\*(base\*height);

printf("Area :%f",Area);

}

**Q36//Write a C program to calculate area of an equilateral triangle.**

#include<stdio.h>

void main()

{

int side,Area;

printf("Enter side of triangle :\n");

scanf("%d",&side);

Area=0.43 \*side\*side;// formula = (squareroot of 3/4 )\*(side\*side)

printf("Area Of Equilateral Triangle is :%d",Area);

}

**Q37//Write a C program to enter marks of five subjects and calculate total, average and**

**//percentage.**

#include<stdio.h>

void main()

{

int math,chem,marathi,eng,phy,total,avg,per;

printf("Enter math marks :\n");

scanf("%d",&math);

printf("Enter chem marks :\n");

scanf("%d",&chem);

printf("Enter marathi marks :\n");

scanf("%d",&marathi);

printf("Enter eng marks :\n");

scanf("%d",&eng);

printf("Enter phy marks :\n");

scanf("%d",&phy);

total=math+chem+marathi+eng+phy;

avg=total/5;

per=(total/500.0)\*100;

printf("Total:%d\n",total);

printf("avg :%d\n",avg);

printf("per:%d\n",per);

}

**Q38//Write a C program to enter P, T, R and calculate Simple Interest.**

#include<stdio.h>

void main()

{

int p,t,r,si;

printf("Enter p,r,t:\n");

scanf("%d%d%d",&p,&t,&r);

si=p\*t\*r;

printf("Simple Interest :%d",si);

}

**Q39//Write a C program to enter P, T, R and calculate Compound Interest**

#include<stdio.h>

void main()

{

int p,t,r,n ,ci;

printf("Enter P T R n:\n");

scanf("%d%d%d%d",&p,&t,&r,&n);

ci=p\*(1+r/n)\*n\*t;

printf("Ans :%d",ci);

}

############################Conditional Operater(Ternary)################################

**Q40//Write a C program to find maximum between two numbers using conditional**

**//operator**

#include<stdio.h>

void main()

{

int a,b;

printf("Enter 1st or second no:\n");

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

(a>b)? printf("1st no is max:%d",a) : printf("Second no is max:%d",b);

}

**Q41//Write a C program to find maximum between three numbers using conditional**

**//operator.**

#include<stdio.h>

void main()

{

int n1,n2,n3;

printf("Enter three no:\n");

scanf("%d%d%d",&n1,&n2,&n3);

(n1>n2)? (n1>n3)?printf("Max:%d",n1):printf("Max:%d",n3) : (n2>n3)?printf("Max:%d",n2) : printf("Max :%d",n3);

}

**Q42//Write a C program to check whether a number is even or odd using conditional**

**//operator**

#include<stdio.h>

void main()

{

int no;

printf("Enter Number:\n ");

scanf("%d",&no);

(no%2==0)? printf("Number is Even\n") : printf("Number odd\n");

}

**Q43//Write a C program to check whether year is leap year or not using conditional**

**//operator.**

#include<stdio.h>

void main()

{

int year;

printf("Enter year\n");

scanf("%d",&year);

(year%4==0)? (year%100==0)? (year%400==0)? printf("Leap\n"):printf("Not Leap\n"):printf("Leap\n"):printf("Not Leap");

/\* if(year%4==0)

{

if(year%100==0)

{

if(year%400==0)

{

printf("its a Leap Year\n");

}

else{

printf("Its not a leap year\n");

}

}

else{

printf("Its a leap year\n");

}

}

else{

printf("Its not a leap year");

}

\*/

}

**Q44//Write a C program to check whether character is an alphabet or not using a**

**//conditional operator.**

#include<stdio.h>

void main()

{

char ch;

printf("Enter character\n");

ch=getch();

(ch>='a' && ch<='z' || ch>='A' && ch<='Z')? printf("%c Character is Alphabet\n",ch) : printf("%c Character is Not Albhabet\n",ch);

}

**############################# If Else ##############################**

**Q45//Write a C program to input any alphabet and check whether it is a vowel or**

**//consonant.**

#include<stdio.h>

void main()

{

int ch;

printf("Enter character:\n");

ch=getchar();

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

{

printf("Alphabet is Vowel\n");

}

else{

printf("Alphabet is Consonent \n");

}

}

**Q46//Write a C program to input week number and print week day**

#include<stdio.h>

void main()

{

int no;

printf("Enter no:\n");

scanf("%d",&no);

if(no==1)

{

printf("Monday\n");

}

else if(no==2)

{

printf("Tuesday\n");

}

else if(no==3)

{

printf("Wednesday\n");

}

else if(no==4)

{

printf("Thursday\n");

}

else if(no==5)

{

printf("Friday\n");

}

else if(no==6)

{

printf("Saturday\n");

}

else if(no==7)

{

printf("Sunday\n");

}

else{

printf("Incorrect!!!");

}

}

**Q47//Write a C program to input month number and print number of days in that month.**

#include<stdio.h>

void main()

{

int month;

printf("Enter Month \n");

scanf("%d",&month);

if(month==1)

{

printf("31 days\n");

}

else if(month==2)

{

printf("28 or 29 days\n");

}

else if(month==3)

{

printf("31 days\n");

}

else if(month==4)

{

printf("30 days\n");

}

else if(month==5)

{

printf("31 days\n");

}

else if(month==6)

{

printf("30 days\n");

}

else if(month==7)

{

printf("31 days\n");

}

else if(month==8)

{

printf("30 days\n");

}

else if(month==9)

{

printf("31 days\n");

}

else if(month==10)

{

printf("30 days\n");

}

else if(month==11)

{

printf("31 days\n");

}

else if(month==12)

{

printf("31 days\n");

}

else{

printf("Incorect !!!");

}

}

**Q48//Write a C program to input angles of a triangle and check whether triangle is valid**

**//or not.**

#include<stdio.h>

void main()

{

int angle1,angle2,angle3,tot;

printf("Enter 3 angles\n");

scanf("%d%d%d",&angle1,&angle2,&angle3);

tot=angle1+angle2+angle3;

if(tot==180)

{

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

}

else{

printf("Following Triangle is not valid\n");

}

}

**Q49//Write a C program to input all sides of a triangle and check whether triangle is valid**

**//or not.**

#include<stdio.h>

void main()

{

int a,b,c,ans1,tot;

printf("Enter a,b,c\n");

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

if(a>b)

{

if(a>c)

{

ans1=b+c;

if(ans1>a)

{

printf("Triangle is valid\n");

}

else{

printf("triangle is invalid\n");

}

}

else

{

ans1=a+b;

if(ans1>c)

{

printf("Triangle is valid\n");

}

else{

printf("triangle is invalid\n");

}

}

}

else if(b>c)

{

ans1=a+c;

if(ans1>b)

{

printf("Triangle is valid\n");

}

else{

printf("triangle is invalid\n");

}

}

else

{

ans1=a+b;

if(ans1>c)

{

printf("Triangle is valid\n");

}

else{

printf("triangle is invalid\n");

}

}

}

**Q50//Write a C program to check whether the triangle is equilateral, isosceles or scalene**

**//triangle.**

#include<stdio.h>

void main()

{

int a,b,c;

printf("Enter three sides of length:\n");

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

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

{

printf("Equilateral Triangle\n");

}

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

{

printf("Isosceles Triangle\n");

}

else

{

printf("Scalene Triangle\n");

}

}

**Q51//Write a C program to calculate profit or loss.**

#include<stdio.h>

void main()

{

int sp,cp,profit ,loss;

printf("Enter selling price\n");

scanf("%d",&sp);

printf("Enter Cost price\n");

scanf("%d",&cp);

if(sp>cp)

{

profit= sp-cp;

printf("Profit is :%d",profit);

}

else

{

loss=cp-sp;

printf("Loss is:%d",loss);

}

}

**Q52/\*Write a C program to input marks of five subjects Physics, Chemistry, Biology,**

**Mathematics and Computer. Calculate percentage and grade according to**

**following:**

**Percentage >= 90% : Grade A**

**Percentage >= 80% : Grade B**

**Percentage >= 70% : Grade C**

**Percentage >= 60% : Grade D**

**Percentage >= 40% : Grade E**

**Percentage < 40% : Grade F**

**\*/**

#include<stdio.h>

void main()

{

int phy,chem,bio,math,comp,per,tot;

printf("Enter 5 sub Marks:\n");

scanf("%d%d%d%d%d",&phy,&chem,&bio,&math,&comp);

tot=phy+chem+bio+math+comp;

per=(tot/500)\*100;

if(per<=100)

{

if(per>=90)

{

printf("Grade A");

}

else if(per>=80)

{

printf("Grade B");

}

else if(per>=70)

{

printf("Grade c");

}

else if(per>=60)

{

printf("Grade D");

}

else if(per>=40)

{

printf("Grade F");

}

else if(per<40)

{

printf("Grade B");

}

}

}

**Q53/\*Write a C program to input basic salary of an employee and calculate its Gross**

**salary according to the following:**

**Basic Salary <= 10000 : HRA = 20%, DA = 80%**

**Basic Salary <= 20000 : HRA = 25%, DA = 90%**

**Basic Salary > 20000 : HRA = 30%, DA = 95%**

**\*/**

#include<stdio.h>

void main()

{

int basicsalary,hra,da,gross;

printf("Enter Salary:\n");

scanf("%d",&basicsalary);

if(basicsalary<=10000)

{

hra=basicsalary\*0.20;

da=basicsalary\*0.80;

}

else if(basicsalary<=20000)

{

hra=basicsalary\*0.25;

da=basicsalary\*0.90;

}

else

{

hra=basicsalary\*0.30;

da=basicsalary\*0.95;

}

gross=basicsalary+hra+da;

printf( "Gross salary : %d",gross);

}

**Q54/\*Write a C program to input electricity unit charges and calculate total electricity bill**

**according to the given condition: For the first 50 units Rs. 0.50/unit**

**For next 100 units Rs. 0.75/unit**

**For next 100 units Rs. 1.20/unit**

**For unit above 250 Rs. 1.50/unit**

**An additional surcharge of 20% is added to the bill**

**\*/**

#include<stdio.h>

void main()

{

float unit,bill,surcharge;

printf("Enter Unit Of electricity\n");

scanf("%f",&unit);

if(unit>=50)

{

bill=bill+(50\*0.50);

unit=unit-50;

if(unit>=100)

{

bill=bill+(100\*0.75);

unit=unit-100;

if(unit>=100)

{

bill=bill+(100\*1.20);

unit=unit-100;

if(unit>0)

{

bill=bill+(unit\*1.50);

}

}

else

{

bill=bill+(unit\*1.20);

}

}

else

{

bill=bill+(unit\*0.75);

}

}

else

{

bill=bill+(unit\*0.50);

}

surcharge= bill + (bill \*0.2);

printf("Amonut Bill is :%f",surcharge);

}

**############################LOOP##########################**

**Q55//Write a C program to print all natural numbers from 1 to n.**

#include<stdio.h>

void main()

{

int i,n;

printf("Enter How many Natural Numbers You want\n");

scanf("%d",&n);

printf("Natural Numbers Are :");

for(i=1;i<=n;i++)

{

printf("%d\n",i);

}

}

**Q56//Write a C program to find the sum of all natural numbers between 1 to n.**

#include<stdio.h>

void main()

{

int i,n,sum=0;

printf("Enter How many Natural Numbers You want\n");

scanf("%d",&n);

printf("Natural Numbers Are :");

for(i=1;i<=n;i++)

{

sum=sum+i;

}

printf("%d\n",sum);

}

**Q57//Write a C program to print all natural numbers in reverse (from n to 1).**

#include<stdio.h>

void main()

{

int i,n;

printf("Enter How many Natural Numbers You want\n");

scanf("%d",&n);

printf("Natural Numbers Are :\n");

for(i=n;i>=1;i--)

{

printf("%d\n",i);

}

}

**Q58//Write a C program to print all alphabets from a to z.**

#include<stdio.h>

void main()

{

int i;

printf("Albhabets A to Z:\n ");

for(i=65;i<=90;i++)

{

printf("%3c",i);

}

}

**Q59//Write a C program to print all even numbers between 1 to 100**

#include<stdio.h>

void main()

{

int i;

printf("Even Numbers 1 to 100 is :\n");

for(i=1;i<=100;i++)

{

if(i%2==0)

{

printf("%d\n",i);

}

}

}

**Q60//Write a C program to print all odd numbers between 1 to 100**

#include<stdio.h>

void main()

{

int i;

printf("ODD Numbers 1 to 100 is :\n");

for(i=1;i<=100;i++)

{

if(i%2!=0)

{

printf("%d\n",i);

}

}

}

**Q61//Write a C program to find the sum of all even numbers between 1 to n.**

#include<stdio.h>

void main()

{

int i,sum=0;

printf("Sum of Even Numbers 1 to 100 is :\n");

for(i=1;i<=100;i++)

{

if(i%2==0)

{

sum=sum+i;

}

}

printf("%d\n",i);

}

**Q62//Write a C program to print multiplication table of any number.**

#include<stdio.h>

void main()

{

int table,n,i;

printf("Enter Number You Want to diplay table :\n");

scanf("%d",&n);

printf("Table of %d is:\n",n);

for(i=1;i<=10;i++)

{

table=i\*n;

printf("%d\n",table);

}

}

**Q63//Write a C program to count number of digits in a number.**

#include<stdio.h>

void main()

{

int no,cnt,rem;

printf("Enter Digit :\n");

scanf("%d",&no);

while(no!=0)

{

rem=no%10;

cnt++;

no=no/10;

}

printf("Count is : %d",cnt);

}

**Q64//Write a C program to find first and last digit of a number.**

#include<stdio.h>

void main()

{

int no,first,last,cnt,d;

printf("Enter Digit :\n");

scanf("%d",&no);

last=no%10;

for(cnt=0 ;no!=0; )

{

d=no;

no=no/10;

if(no==0)

{

printf ("First : %d\n",d);

}

}

printf ("Last : %d",last);

}

**Q65 //Write a C program to find sum of first and last digit of a number.**

#include<stdio.h>

void main()

{

int no,first,last,cnt,d;

printf("Enter Digit :\n");

scanf("%d",&no);

last=no%10;

for(cnt=0 ;no!=0; )

{

d=no;

no=no/10;

if(no==0)

{

printf (" Sum of First and Last No is: %d\n",(d+last));

}

}

}

**Q66//Write a C program to swap first and last digits of a number.**

#include<stdio.h>

void main()

{

int no,nw,rev=0;

printf("Enter Digit :\n");

scanf("%d",&no);

nw=no%10;

no=no/10;

for(;no>=10; no=no/10)

{

rev=(rev\*10)+(no%10);

}

for(; rev>0;rev=rev/10)

{

nw=(nw\*10)+(rev%10);

}

nw=nw\*10+no;

printf("%d",nw);

}

**Q67//Write a C program to calculate sum of digits of a number**

#include<stdio.h>

void main()

{

int no,sum=0,rem;

printf("Enter Number\n");

scanf("%d",&no);

for(;no!=0;no=no/10)

{

rem=no%10;

sum=sum+rem;

}

printf("Sum Of Digit is : %d",sum);

}

**Q68//Write a C program to calculate product of digits of a number.**

#include<stdio.h>

void main()

{

int no,mul=1,rem;

printf("Enter Digit\n");

scanf("%d",&no);

for(;no!=0;no=no/10)

{

rem=no%10;

mul=mul\*rem;

}

printf("Product of digit of a number is : %d",mul);

}

**Q69//Write a C program to enter a number and print its reverse**

#include<stdio.h>

void main()

{

int no,rev=0,rem;

printf("Enter Number:\n");

scanf("%d",&no);

for(;no!=0;no=no/10)

{

rem=no%10;

rev=(rev\*10)+rem;

}

printf("Reverse Number is :%d",rev);

}

**Q70//Write a C program to check whether a number is palindrome or not**

#include<stdio.h>

void main()

{

int no,rev=0,rem,temp;

printf("Enter Number:\n");

scanf("%d",&no);

temp=no;

for(;no!=0;no=no/10)

{

rem=no%10;

rev=(rev\*10)+rem;

}

if(temp==rev)

{

printf("Number is Palindrome \n");

}

else

{

printf("Number is not Palindrome \n");

}

}

**Q71//Write a C program to find frequency of each digit in a given integer**

#include<stdio.h>

void main()

{

int no,i,cnt=0,rem,temp;

printf("Enter Digit\n");

scanf("%d",&no);

temp=no;

for(i=0;i<10;i++)

{

cnt=0;

no=temp;

for(;no!=0;no=no/10)

{

rem=no%10;

if(rem==i)

{

cnt++;

}

}

if(cnt>0)

{

printf("%d Present In %d Times \n",i,cnt);

}

}

}

**Q72//Write a C program to enter a number and print it in words**

#include<stdio.h>

void main()

{

int no,rem,rev=0;

printf("Enter Number\n");

scanf("%d",&no);

for(;no!=0;no=no/10)

{

rem=no%10;

rev=(rev\*10)+rem;

}

for(;rev!=0;rev=rev/10)

{

rem=rev%10;

if(rem==0)

{

printf("Zero ");

}

else if (rem==1)

{

printf("One ");

}

else if (rem==2)

{

printf("Two ");

}

else if (rem==3)

{

printf("Three ");

}

else if (rem==4)

{

printf("Four ");

}

else if (rem==5)

{

printf("Five ");

}

else if (rem==6)

{

printf("Six ");

}

else if (rem==7)

{

printf("Seven ");

}

else if (rem==8)

{

printf("Eight ");

}

else if (rem==9)

{

printf("Nine ");

}

}

}

**Q73//Write a C program to print all ASCII character with their values.**

#include<stdio.h>

void main()

{

int i;

for(i=1;i<=127;i++)

{

printf("Ascii character : %c Number: %d\n",i,i);

}

}

**Q74//Write a C program to find all factors of a number.**

#include<stdio.h>

void main()

{

int no,fact,i;

printf("Enter Number\n");

scanf("%d",&no);

printf("Factors is :\n");

for(i=1;i<=no;i++)

{

if(no%i==0)

{

printf("%d\n",i);

}

}

}

**Q75//Write a C program to find HCF (GCD) of two numbers.**

//Donhi Number ch Highest Common Factor

#include<stdio.h>

void main()

{

int no1,no2,i;

printf("Enter Two Numbers:\n");

scanf("%d %d",&no1,&no2);

for(i=(no1>no2?no1:no2) ; i>=1 ;i--)

{

if(no1%i==0 && no2%i==0)

{

printf("Hcf (GCD) is :%d",i);

break;

}

}

}

Q76