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**PRACTICAL-2: Program To Implement Conditional Statements.**

1. **Program that check whether the two no. entered by user are equal or not.**

#include<stdio.h>

#include<conio.h>

void main()

{

int num1,num2;

printf("Enter both numbers:");

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

if(num1==num2)

{

printf("Numbers are equals");

}

else{

printf("Numbers are not equals");

}

getch();

}

1. **Program to find the greatest among three numbers.**

#include<stdio.h>

#include<conio.h>

void main(){

int n1,n2,n3;

printf("Enter three numbers:");

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

if((n1>n2)&&(n1>n3))

{

printf("%d is greater",n1);

}

else if(n2>n3)

{

printf("%d is greater",n2);

}

else{

printf("%d is greater",n3);

}

getch();

}

1. **Program to find given no. is even or odd.**

#include<stdio.h>

#include<conio.h>

void main()

{

int num;

printf("Enter a number:");

scanf("%ld",&num);

if(num%2==0)

{

printf("Even");

}

else

{

printf("Odd");

}

getch();

}

1. **Program that tells whether a given year is leap or not.**

#include<stdio.h>

#include<conio.h>

void main()

{

int year;

printf("Enter a year:");

scanf("%d",&year);

if(year%4==0)

{

printf("leap year");

}

else if(year%100==0)

{

printf("Not leap year");

}

else if(year%4==0)

{

printf("Leap year");

}

else

{

printf("Not leap year");

}

getch();

}

1. **The working hour based on age of the laborer is given:**

**Age working hour**

**0-10 0**

**11-15 0**

**16-20 3**

**21-25 6**

**>25 8**

**Write a program to calculate working hours of a person for a given age.**

#include<stdio.h>

#include<conio.h>

void main()

{

int age;

printf("Enter age ");

scanf("%d",&age);

if(age>=0&&age<=10)

{

printf("Working hour from 0-10 is 0");

}

else if(age>=11&&age<=15)

{

printf("Working hour from 11-15 is 0");

}

else if(age>=16&&age<=20)

{

printf("Working hour from 16-20 is 3");

}

else if(age>=21&&age<=25)

{

printf("Working hour from 21-25 is 6");

}

else

{

printf("Working hour from>25 is 8");

}

getch();

}

1. **Write the program to finds the roots of a quadratic equation.**

/\*quadratic equations by Anmol Goyal on 25th December,2022\*/

#include<stdio.h>

#include<Conio.h>

#include<math.h>

void main()

{

double a,b,c,d,k,x1,x2;

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

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

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

k=sqrt(d);

if(d>0)

{

x1=-b+(k)/(2\*a);

x2=-b-(k)/(2\*a);

printf("Values of x1 and x2 for d>0 is %lf %lf\n",x1,x2);

}

else if(d==0)

{

x1=-b/(2\*a);

x2=-b/(2\*a);

printf("Values of x1 and x2 for d==0 is %lf %lf",x1,x2);

}

Else

{

printf("\nRoots are imaginary");

}

getch();

}

1. **Write a program to print the given no. is even or odd using “Conditional operator”.**

#include<stdio.h>

void main()

{

int n,k;

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

scanf("%d",&n);

k=(n%2==0)? printf("Enter number is even"):printf("Enter number is odd");

}