Printf(“Name:- Sumit Gupta”);

Output

Name:- Sumit Gupta

1. Write a program to check whether a given number is positive or non-positive.

*//Write a program to check whether a given number is positive or non-positive.*

*#include*<stdio.h>

int main()

{

    int i=0,n;

    printf("enter a any number ");

    scanf("%d", &n);

*if*(i<=n)

    {

        printf("positive number");

    }

*else* *if* (i >= n )

    {

        printf("negitive number" );

    }

*return* 0;

}

1. Write a program to check whether a given number is divisible by 5 or not

*//Write a program to check whether a given number is divisible by 5 or not*

*#include*<stdio.h>

int main ()

{

    int n;

    printf("Enter a number");

    scanf("%d",&n);

*if*(n%5==0)

    {

        printf("divisible number");

    }

*else*

    {

        printf("Not-divisible number ");

    }

*return* 0;

}

3.Write a program to check whether a given number is an even number or an odd

number.

*/\*Write a program to check whether a given number is an even number or an odd*

*number.\*/*

*#include*<stdio.h>

int main ()

{

    int n;

    printf("Enter any number:");

    scanf("%d",&n);

*if*(n%2==0)

{

    printf("Even number ");

}

*else*

{

    printf("odd number ");

}

*return* 0;

}

4*/\*Write a program to check whether a given number is an even number or an odd*

*number without using % operator.\*/*

*#include*<stdio.h>

int main ()

{

    int n;

    printf("Enter a number");

    scanf("%d",&n);

*//if((n & 1)==0)*

*if*(n/2\*2==n)

     {

        printf("the given number is  even number");

     }

*else*{

    printf("the given number is odd number");

}

*return* 0;

}

5Write a program to check whether a given number is a three-digit number or not.

*#include*<stdio.h>

int main (){

    int n;

    printf("Enter a number");

    scanf("%d",&n);

*if*(n>99 && n<1000)

    {

        printf("the given number is three-digit %d",n);

    }

*else*

    {

        printf("not a three-digit number");

    }

*return* 0;

}

6.Write a program to print greater between two numbers. Print one number of both are

the same.

*#include*<stdio.h>

int main()

{

    int num1,num2;

    printf("Enter two number ");

    scanf("%d%d",&num1,&num2);

*if*(num1>num2)

    {

        printf("gratest number is %d\n",num1);

    }

*else* *if*(num2>num1)

    {

         printf("gratest number is %d",num2);

    }

*else*

{

    printf("both number are equal");

}

*return* 0;

}

*/\*Write a program to check whether roots of a given quadratic equation are real &*

*distinct, real & equal or imaginary roots\*/*

*#include*<stdio.h>

*#include*<math.h>

int main ()

{

     int a,b,c;

     float x,y;

     printf("Enter a cofficient value X^2, x and constant termn\n");

     scanf("%d %d %d",&a,&b,&c);

      int D;

      D=b\*b-4\*a\*c;

*if*(D==0)

      {

      printf("equal roots");

      }

*if*(D>0)

      {

        printf("real number");

      }

*if*(D<0)

      {

        printf("imaginary roots ");

      }

      x=-b+ sqrt(D)/(2\*a);

       y=-b -sqrt(D)/(2\*a);

       printf("\n roots are = %f %f",x ,y);

*return* 0;

}

1. Write a program to check whether a given year is a leap year or not.

*#include*<stdio.h>

 int main ()

 {

    int yr;

    printf("enter a years");

    scanf("%d",&yr);

*if*(yr%4==0 && yr%400==0)

    {

        printf("leap years %d",yr);

    }

*else* *if* (yr%400==0 && yr%100==00)

    {

        printf("leap  years");

    }

*else*

    {

        printf("not leap years");

    }

 }

9.Write a program to find the greatest among three given numbers. Print number once

if the greatest number appears two or three times.

Source code

*#include*<stdio.h>

int main()

{

    int a,b,c;

    printf("Enter a number");

    scanf("%d%d%d",&a,&b,&c);

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

    {

        printf("greatest number %d",a);

    }

*else* *if*(b >=a && b >=c)

    {

        printf("greatest number %d",b);

    }

*else* *if*(c >=a && c >=b)

    {

        printf("greatest number %d",c);

    }

*return* 0;

}

10*/\*Write a program which takes the cost price and selling price of a product from the*

*user. Now calculate and print profit or loss percentage.\*/*

*#include*<stdio.h>

int main ()

{

    float cp,sp,PL,LL;

    printf("Enter cost price");

    scanf("%f",&cp);

    printf("Enter selling price");

    scanf("%f",&sp);

*if*(sp>cp)

{

 PL=(sp-cp)\*100/cp;

 printf("Profit Percentage is %f",PL);

}

*else* *if* (cp>sp)

{

    LL=(cp-sp)\*100/cp;

    printf("loss Percentage is %f",LL);

}

*return* 0;

}

*11/\*Write a program to take marks of 5 subjects from the user. Assume marks are given*

*out of 100 and passing marks is 33. Now display whether the candidate passed the*

*examination or failed.\*/*

*#include*<stdio.h>

int main()

{

*//SCIENCE,MATHS,ENGLISH,COMPUTER,DSA*

    int S,M,E,C,DSA;

    printf("enter the marks of the subject\n");

    scanf("%d%d%d%d%d",&S,&M,&E,&C,&DSA);

*if*(S>33 || E>33 ||  M>33 ||  C>33 ||  DSA>33 )

 {

    printf("the candidate passed the exam");

 }

*else*

 {

    printf("the candidate FAIL the exam");

 }

*if* (S>100 || E>100||  M>100||  C>100||  DSA>100)

  {

  printf("wrong number");

  }

*return* 0;

}

12.*//12. Write a program to check whether a given alphabet is in uppercase or lowercase.*

*#include*<stdio.h>

int main ()

{

    char ch;

    printf("Enter a english letter\n");

    scanf("%c", &ch);

*if*(ch >= 'A' && ch <='Z')

    {

        printf("uper case %c",ch);

    }

*else* *if* (ch >= 'a'&& ch <= 'z' )

    {

        printf("lower case %c ", ch);

    }

*else*

    {

        printf(" not a english letter");

    }

*return* 0;

}

*//13. Write a program to check whether a given number is divisible by 3 and divisible by 2.*

*#include*<stdio.h>

int main ()

{

    int n;

    printf("Enter a number ");

    scanf("%d",&n);

*if*(n%2==0)

    {

        printf("the given number is divisible by 2 %d",n);

    }

*else* *if*(n%3==0)

    {

        printf("the given number is divisible by 3 %d",n);

    }

*return* 0;

}

*//14Write a program to check whether a given number is divisible by 7 or divisible by 3.*

*//13. Write a program to check whether a given number is divisible by 3 and divisible by 2.*

*#include*<stdio.h>

int main ()

{

    int n;

    printf("Enter a number ");

    scanf("%d",&n);

*if*(n%7==0)

    {

        printf("the given number is divisible by 7 %d",n);

    }

*else* *if*(n%3==0)

    {

        printf("the given number is divisible by 3 %d",n);

    }

*return* 0;

}

*//15. Write a program to check whether a given number is positive, negative or zero.*

*#include*<stdio.h>

int main ()

{

    int n;

    printf("Enter a number\n");

    scanf("%d",&n);

*if*(n>0)

    {

        printf("the given number is positive number %d",n);

    }

*else* *if* (n<0)

    {

        printf("the given number is negative number %d",n);

    }

*else* *if*(n=0)

    {

     printf("the given number is zero %d",n);

    }

*return* 0;

}

16.16. Write a program to check whether a given character is an alphabet (uppercase), an alphabet (lower case), a digit or a special character.

*#include*<stdio.h>

int main ()

{

    char ch;

    printf("Enter a english letter\n");

    scanf("%c", &ch);

*if*(ch >= 'A' && ch <='Z')

    {

        printf("uper case %c",ch);

    }

*else* *if* (ch >= 'a'&& ch <= 'z' )

    {

        printf("lower case %c ", ch);

    }

*else*

    {

        printf(" a digit or a special character.");

    }

*return* 0;

}

*/\*17. Write a program which takes the length of the sides of a triangle as an input. Display*

*whether the triangle is valid or not.\*/*

*#include*<stdio.h>

int main ()

{

    int a,b,c;

    printf("Enter a side of a number\n");

    scanf("%d%d%d",&a,&b,&c);

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

    {

        printf("the triangle is valid");

    }

*else*

    {

        printf("the triangle is  not valid ");

    }

*return* 0;

}

*/\*Write a program which takes the month number as an input and display number of*

*days in that month\*/*

*#include* <stdio.h>

int main()

{

    int month;

*/\* Input month number from user \*/*

    printf("Enter month number (1-12): ");

    scanf("%d", &month);

*if*(month == 1)

    {

        printf("31 days");

    }

*else* *if*(month == 2)

    {

        printf("28 or 29 days");

    }

*else* *if*(month == 3)

    {

        printf("31 days");

    }

*else* *if*(month == 4)

    {

        printf("30 days");

    }

*else* *if*(month == 5)

    {

        printf("31 days");

    }

*else* *if*(month == 6)

    {

        printf("30 days");

    }

*else* *if*(month == 7)

    {

        printf("31 days");

    }

*else* *if*(month == 8)

    {

        printf("31 days");

    }

*else* *if*(month == 9)

    {

        printf("30 days");

    }

*else* *if*(month == 10)

    {

        printf("31 days");

    }

*else* *if*(month == 11)

    {

        printf("30 days");

    }

*else* *if*(month == 12)

    {

        printf("31 days");

    }

*else*

    {

        printf("Invalid input! Please enter month number between (1-12).");

    }

*return* 0;

}