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QUESTIONS 8 / 8 completed

Rectangle

RECTANGLE

Write a program that calculates the area of a rectangle given its length and width. Problem Description: Write a program that calculates the area of a rectangle given its length and width. The program should prompt the user to enter the length and width of the rectangle as input,

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int l,w,area;
  scanf("%d%d",&l,&w);
  area=l*w;
  printf("%d",area);
}
```

INPUT

```
20
13
```

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QUESTIONS 8 / 8 completed

ODD EVEN

ODD EVEN

Write a program that checks whether a number is even or odd.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int a;
  scanf("%d",&a);
  if(a%2==0)
  {
    printf("even");
  }
  else
  {
    printf("odd");
  }
}
```

INPUT

86

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QUESTIONS 8 / 8 completed

Leap

LEAP

Write a program that determines whether a year is a leap year or not. A year is a leap year if it is divisible by 4, but not divisible by 100 unless it is also divisible by 400.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int a;
  scanf("%d",&a);
  if(a%4==0)
  {
    printf("it is leap year");
  }
  else
  {
    printf("not a leap year");
  }
}
```

INPUT

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QUESTIONS 8 / 8 completed

Max-Min

MAX-MIN

Write a program that takes three integers as input and prints the maximum and minimum of the three.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int a,b,c,max,min;
  scanf("%d%d%d",&a,&b,&c);
  max=a;
  if(b>max)
  {
    max=b;
  }
  if(c>max)
  {
    max=c;
  }
  min=a;
  if(b<min)
  {
    min=b;
  }
  if(c<min)
  {
```

INPUT

```
4
3
6
```

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QUESTIONS 8 / 8 completed

Sum-Avg

SUM-AVG

Write a program that takes a list of numbers as input and computes the sum and average of the numbers.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int a,b,sum;
  float average;
  scanf("%d%d",&a,&b);
  sum=a+b;
  average=sum/2.0;
  printf("%d\n",sum);
  printf("%.2f",average);
}
```

INPUT

```
25
27
```

360 Startup Booster
5 M
Optimize

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QUESTIONS 8 / 8 completed

+ OR -

+ OR -

C program to Check Whether a Number is Positive or Negative.

Problem Description
The program takes the given integer and checks whether the integer is positive or negative.

Testcases:
-5
e

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int a;
  scanf("%d",&a);
  if(a>0)
  {
    printf("positive");
  }
  else
  {
    printf("negative");
  }
}
```

INPUT

-5

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QUESTIONS 8 / 8 completed

Greatest

GREATEST

Write a program that takes two numbers as input and determines which one is larger.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int a,b;
  scanf("%d%d",&a,&b);
  if(a>b)
  {
    printf("a is larger");
  }
  else
  {
    printf("b is greater");
  }
}
```

INPUT

37
48

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QUESTIONS 8 / 8 completed

Character

CHARACTER

Write a program that takes a character as input and determines whether it is a vowel or a consonant.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  char ch;
  scanf("%c",&ch);
  if(ch=='A'||ch=='E'||ch=='I'||ch=='O'||ch=='U'||ch=='a'||ch=='e'||ch=='i'||ch=='o'||
    ch=='u')
  {
    printf("it is a vowel");
  }
  else if(ch>='A'&&ch<='Z'||ch>='a'&&ch<='z')
  {
    printf("it is a consonant");
  }
  else
  {
    printf("it is invalid");
  }
}
```

INPUT

o

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QUESTIONS 8 / 8 completed

Age

AGE

Write a program that takes an age as input and determines whether the person is a child, teenager, adult, or senior citizen.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int age;
  scanf("%d",&age);
  if(age>=0&&age<=12)
  {
    printf("child");
  }
  else if(age>=13&&age<=19)
  {
    printf("teenager");
  }
  else if(age>=20&&age<=50)
  {
    printf("adult");
  }
  else
  {
    printf("senior citizen");
  }
```

INPUT

18

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QUESTIONS 8 / 8 completed

Temperature

TEMPERATURE

Write a program that takes a temperature as input and determines whether it is hot, warm, or cold.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int temp;
  scanf("%d",&temp);
  if(temp>=35)
  {
    printf("it is hot");
  }
  else if(temp>=20&&temp<35)

  {
    printf("it is warm");
  }
  else
  {
    printf("it is cold");
  }
}
```

INPUT

25

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QUESTIONS 8 / 8 completed

Ups-Lows

UPS-LOWS

Write a program that takes a character as input and determines whether it is uppercase or lowercase.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  char ch;
  scanf("%c",&ch);
  if(ch>='A'&&ch<='Z')
  {
    printf("uppercase");
  }
  else if(ch>='a'&&ch<='z')
  {
    printf("lowercase");
  }
  else
  {
    printf("invalid");
  }
}
```

INPUT

B

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QUESTIONS 8 / 8 completed

Multiple

MULTIPLE

Write a program that takes a number as input and determines whether it is a multiple of 3 or 5.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int a;
  scanf("%d",&a);
  if(a%3==0&&a%5==0)
  {
    printf("multiple of 3 and 5");
  }
  else if(a%3==0)
  {
    printf("multiple of 3");
  }
  else if(a%5==0)
  {
    printf("multiple of 5");
  }
  else
  {
    printf("not multiple of both 3 and 5");
  }
```

INPUT

15

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QUESTIONS 8 / 8 completed

Grade

GRADE

Write a program that takes a grade as input and determines the corresponding letter grade (A, B, C, D, or F).

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int grade;
  scanf("%d",&grade);
  if(grade>=90&&grade<=100)
  {
    printf("grade is A");
  }
  else if(grade>=80)
  {
    printf("grade is B");
  }
  else if (grade>=70)
  {
    printf("grade is C");
  }
  else if (grade>=60)
  {
    printf("grade is D");
  }
```

INPUT

59

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QUESTIONS 14 / 18 completed

Sum(ODD,EVEN)

SUM(ODD,EVEN)

C Program to Find the Sum of Even and Odd Numbers.
Problem Description
The program takes the number N and finds the sum of odd and even numbers from 1 to N.

Testcases:
-5
10
4

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main() {
  int n,i=1;
  int odd=0, even=0;
  scanf("%d",&n);
  while(i<=n){
    if(i%2==0){
      even=even+i;
    }else{
      odd=odd+i;
    }
    i=i+1;
  }
  printf("%d %d\n",odd,even);
  return 0;
}
```

INPUT

5

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QUESTIONS 14 / 18 completed

Natural

NATURAL

Write a program that prints the first n natural numbers using a for loop.

PROGRAM EDITOR

C

Run Save

```c
#include <stdio.h>
int main() {
  int n,i,sum=0;
  scanf("%d",&n);
  for(i=1;i<=n;i++) {
    sum=sum+i;
   }
  printf("%d \n",sum);
  return 0;
}
```

INPUT

5

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QUESTIONS 14 / 18 completed

Sum

SUM

Write a program that calculates the sum of the first n natural numbers using a while loop.

PROGRAM EDITOR

C

Run Save

```c
#include <stdio.h>
int main() {
  int n,total_sum=0,i=1;
  printf("enter a positive integer(n):");
  scanf("%d", &n);
  while(i<=n) {
    total_sum +=i;
    i++;
  }
  printf("the sum of first &d natural numbers %n",n,total_sum);
  return 0;
}
```

INPUT

3

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QUESTIONS 14 / 18 completed

Table

TABLE

Write a program that prints the multiplication table of a given number using a for loop.

PROGRAM EDITOR

C

Run Save

```c
#include <stdio.h>
int main() {
  int num;
  printf("enter a number:\n");
  scanf("%d",&num);
  for(int i=1;i<=10;i++){
    printf("%d * %d= %d \n",num,i,num*i);
  }
  return 0;
}
```

INPUT

4

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QUESTIONS 14 / 18 completed

Prime

PRIME

Write a program that takes a number as input and determines whether it is a prime number or not using a while loop.

PROGRAM EDITOR

C

Run Save

```c
#include <stdio.h>
int main() {
  int num;
  printf("enter a number:");
  scanf("%d",&num);
  if (num<=1){
    printf("%d is not a prime number\n",num);
  }else{
    int is_prime=1;
    int divisor=2;
    while(divisor *divisor <=num){
      if(num%divisor==0){
        is_prime=0;
        break;
      }
      divisor++;
    }
    if(is_prime==1) {
      printf("%d is a prime numer\n",num);
    }else{
      printf("%d is not a prime number \n",num);
```

INPUT

17

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QUESTIONS 14 / 18 completed

Fibonacci

FIBONACCI

Write a program that prints the Fibonacci series up to a given number using a while loop.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int n;
  int a=0,b=1,c;
  scanf("%d",&n);
  while(a<=n)
  {
    printf("%d",a);
    c=a+b;
    a=b;
    b=c;
  }
  return 0;
}
```

INPUT

20

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QUESTIONS 14 / 18 completed

Factorial

FACTORIAL

Write a program that takes a number as input and prints its factorial using a for loop.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int n,i;
  long long fact=1;
  scanf("%d",&n);
  for(i=1;i<=n;i++)
  {
    fact=fact*i;
  }
  printf("%lld",fact);
  return 0;
}
```

INPUT

5

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QUESTIONS 14 / 18 completed

Pyramid

PYRAMID

Write a program that prints a pyramid pattern of stars using nested loops.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int i,j,space,n;
  scanf("%d",&n);
  for(i=1;i<=n;i++)
  {
    for(space=1;space<=n-i;space++)
    {
      printf(" ");
    }
    for(j=1;j<=2*i-1;j++)
    {
      printf("*");
    }
    printf("\n");
  }
  return 0;
}
```

INPUT

5

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QUESTIONS 14 / 18 completed

Diamond

DIAMOND

Write a program that prints a diamond pattern of stars using nested loops.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int i,j,n;
  scanf("%d",&n);
  for(i=1;i<=n;i++)
  {
    for(j=1;j<=n-i;j++)
    {
      printf(" ");
    }
  for(j=1;j<=2*i-1;j++)
    {
      printf("*");
    }
    printf("\n");
  }
  for(i=n-1;i>=1;i--)
  {
    for(j=1;j<=n-i;j++)
    {
```

INPUT

5

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QUESTIONS 14 / 18 completed

R- triangle

R- TRIANGLE

Write a program that prints a right-angled triangle pattern of stars using nested loops.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main() {
  int i,j;
  for (i=1;i<=5;i++){
    for(j=1;j<=i;j++){
      printf("r");
    }
    printf("\n");
  }
  return 0;
}
```

INPUT

Your INPUT goes here!

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QUESTIONS 14 / 18 completed

Hollow Square

HOLLOW SQUARE

Write a program that prints a hollow square pattern of stars using nested loops.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int i,j,n;
  scanf("%d",&n);
  for(i=1;i<=n;i++)
  {
    for(j=1;j<=n;j++)
    {
     if(i==1||i==n||j==1||j==n)
     {
       printf("*");
     }
     else
     {
       printf(" ");
     }
    }
    printf("\n");
  }
  return 0;
```

INPUT

5

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Hollow Diamond

HOLLOW DIAMOND

Write a program that prints a hollow diamond pattern of stars using nested loops.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int i,j,n;
  scanf("%d",&n);
  for(i=1;i<=n;i++)
  {
    for(j=1;j<=n-i;j++)
    {
      printf(" ");
    }
    for(j=1;j<=2*i-1;j++)
    {
      if(j==1||j==2*i-1)
      {
        printf("*");
      }
      else
      {
        printf(" ");
      }
```

INPUT

5

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Armstrong

ARMSTRONG

Write a program to find the given number is Armstrong or Not.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int n,temp,rem,sum=0;
  scanf("%d",&n);
  temp=n;
  while(temp>0)
  {
    rem=temp%10;
    sum=sum+(rem*rem*rem);
    temp=temp/10;
  }
  if(sum==n)
  {
    printf("armstrong number");
  }
  else
  {
    printf("not armstrong number");
  }
  return 0;
```

INPUT

153

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QUESTIONS 14 / 18 completed

Perfect

PERFECT

Write a program to find the given number is Perfect number or Not.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int n,i,sum=0;
  scanf("%d",&n);
  for(i=1;i<n;i++)
  {
    if(n%i==0)
    {
      sum+=i;
    }
  }
  if(sum==n)
  {
    printf("perfect number");
  }
  else
  {
    printf("not perfect number");
  }
}
```

INPUT

6

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QUESTIONS 8 / 8 completed

Swap 2 No's

SWAP 2 NO'S

C Program to Swap Two Numbers.
Swapping two numbers in C programming means swapping the values of two variables.
For example, there are two variables m & n. Value of m is "2" & value of n is "3".
Before Swapping: m value = 2; n value = 3

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int a,b,temp;
  scanf("%d %d",&a,&b);
  temp=a;
  a=b;
  b=temp;
  printf("a = %d\n",a);
  printf("b = %d",b);
}
```

INPUT

```
2
3
```

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C PROGRAMMING

Sharvesh S
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QUESTIONS 8 / 8 completed

Arithmatic

ARITHMATIC

Write a program that takes two numbers as input and prints their sum, difference, product, and quotient.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  int a,b,sum,difference,product,quotient;
  scanf("%d%d",&a,&b);
  sum=a+b;
  difference=a-b;
  product=a*b;
  quotient=a/b;
  printf("%d\n",sum);
  printf("%d\n",difference);
  printf("%d\n",product);
  printf("%d",quotient);
}
```

INPUT

```
2
4
```

29°C Mostly cloudy

Search

ENG IN

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SIMATS ENGINEERING

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C PROGRAMMING

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QUESTIONS 8 / 8 completed

Convert

CONVERT

Write a program that converts Celsius to Fahrenheit. The formula is Fahrenheit = (Celsius * 1.8) + 32.

PROGRAM EDITOR

C

Run Save

```c
#include<stdio.h>
int main()
{
  float farenheit,celsius;
  scanf("%f",&celsius);
  farenheit=(celsius*1.8)+32;
  printf("%.2f",farenheit);
}
```

INPUT

32

29°C
Mostly cloudy

Search

ENG
IN

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