**#simple intrest exp1**

*#include<stdio.h>*

*int main(){*

*float p,t,r,si;*

*printf("Enter p,t,r values:");*

*scanf("%f %f %f",&p,&t,&r);*

*si=(p\*t\*r)/100;*

*printf("Simple Interest = %$.2f\n", si);*

*return0;*

*}*

**#Fahrenheit to Celsius exp2**

*#include<stdio.h>*

*int main()*

*{*

*//calucate fahrenheit to celsius*

*float f,c;*

*printf("Enter the value:");*

*scanf("%f",&f);*

*c=5.0/9\*(f-32);*

*//by keeping .0 at 5 place it will not treat it as integer*

*printf("f converted to c=%.2f\n",c);*

*return 0;*

*}*

**#Radius of circle exp3**

*//radius of circle*

*#include <stdio.h>*

*float main() {*

*//area of circle*

*float r, area;*

*printf("Enter the radius of the circle");*

*scanf("%f",&r);*

*area=(22/7)\*r\*r;*

*printf("area of circle=%f",area);*

*return 0;*

*}*

**#(a+b)square exp4**

*#include <stdio.h>*

*int main() {*

*int a,b,c;*

*printf("Enter the values a,b,c:");*

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

*int left=(a+b)\*(a+b);*

*int right=(a\*a)+(b\*b)+2\*(a)\*(b);*

*printf("left==",left);*

*printf("=right",right);*

*return 0;*

*}*

***#FEB 5 coding***

**The code reads all marks into the same variable marks without storing them separately. So, only the last entered mark will be stored in marks.**

*// Online C compiler to run C program online*

*#include <stdio.h>*

*int main() {*

*int marks,total;*

*printf("Enter english marks:\n");*

*scanf("%d",&marks);*

*printf("Enter Telugu marks:\n");*

*scanf("%d",&marks);*

*printf("Enter Hindi marks:\n");*

*scanf("%d",&marks);*

*printf("Enter maths marks:\n");*

*scanf("%d",&marks);*

*printf("Enter science marks:\n");*

*scanf("%d",&marks);*

*printf("Enter social marks:\n");*

*scanf("%d",&marks);*

*total=marks+marks+marks+marks+marks*

*printf("total matks:%d",total);*

*return 0;*

*}*

**#coding2**

**We shouldn't use the same variable to store all marks. Instead, we should use separate variables for each subject's marks. Here's the corrected version of the code**:

***#include <stdio.h>***

***int main() {***

***int eng, tel, hin, mat, scie, soc;***

***int total;***

***printf("Enter English marks:\n");***

***scanf("%d", &eng);***

***printf("Enter Telugu marks:\n");***

***scanf("%d", &tel);***

***printf("Enter Hindi marks:\n");***

***scanf("%d", &hin);***

***printf("Enter Maths marks:\n");***

***scanf("%d", &mat);***

***printf("Enter Science marks:\n");***

***scanf("%d", &scie);***

***printf("Enter Social marks:\n");***

***scanf("%d", &soc);***

***total = eng + tel + hin + mat + scie + soc;***

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

***return 0;***

***}***

***#coding3***

***If statement***

*#include <stdio.h>*

*int main() {*

*int eng, tel, hin, mat, scie, soc;*

*int total,marks;*

*printf("Enter English marks:\n");*

*scanf("%d", &eng);*

*printf("Enter Telugu marks:\n");*

*scanf("%d", &tel);*

*printf("Enter Hindi marks:\n");*

*scanf("%d", &hin);*

*printf("Enter Maths marks:\n");*

*scanf("%d", &mat);*

*printf("Enter Science marks:\n");*

*scanf("%d", &scie);*

*printf("Enter Social marks:\n");*

*scanf("%d", &soc);*

*total = eng + tel + hin + mat + scie + soc;*

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

*if(total>=70)*

*printf("distiniction");*

*if(total>=50&&total<=60)*

*printf("first class");*

*if(total>=40&&total<=50)*

*printf("secondclass");*

*if(total<=40)*

*printf("fail");*

*return 0;*

*}*

***#coding5***

***If else***

***Else if***

***#include <stdio.h>***

***int main() {***

***int eng, tel, hin, mat, scie, soc;***

***int total, marks;***

***printf("Enter English marks:\n");***

***scanf("%d", &eng);***

***printf("Enter Telugu marks:\n");***

***scanf("%d", &tel);***

***printf("Enter Hindi marks:\n");***

***scanf("%d", &hin);***

***printf("Enter Maths marks:\n");***

***scanf("%d", &mat);***

***printf("Enter Science marks:\n");***

***scanf("%d", &scie);***

***printf("Enter Social marks:\n");***

***scanf("%d", &soc);***

***total = eng + tel + hin + mat + scie + soc;***

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

***if (total >= 70)***

***printf("Grade: Distinction\n");***

***else if (total >= 60)***

***printf("Grade: First Class\n");***

***else if (total >= 50)***

***printf("Grade: Second Class\n");***

***else***

***printf("Grade: Fail\n");***

***return 0;***

***}***

***#FEB 6 CODING***

***To find the maximum and mininmum from the array of elments***

**// Online C compiler to run C program online**

**#include <stdio.h>**

**int main() {**

**int arr[100],n,i,max,min;**

**printf("Enter size of array:");**

**scanf("%d",&n);**

**printf("Enter array of %d elements :\n",n);**

**for(int i=0;i<n;i++)**

**{**

**printf("Enter element %d:",i+1);**

**scanf("%d",&arr[i]);**

**}**

***//upto here how u actually print the array of elements from the user***

**max=arr[0]; //here u have to initialize the first element as max and minimum**

**min=arr[0];**

**for(i=1;i<n;i++) //u have to use for loop to access every element from array**

**{**

***#logic for max and min***

**if(arr[i]>max){**

**max=arr[i];**

**}**

**if(arr[i]<min){**

**min=arr[i];**

**}**

**}**

**printf("Max of the array elements:%d\nMin of the array elements:%d\ndiff:%d",max,min,max-min);**

**return 0;**

**}**

***#Coding 2***

**To find even and odd from the array of element and find the sum of even and sum of odd and do difference**

**// Online C compiler to run C program online**

**#include <stdio.h>**

**int main() {**

**int arr[100],i,n,osum=0,esum=0;**

**printf("Enter size of array:");**

**scanf("%d",&n);**

**printf("enter array %d of elemnts",n);**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&arr[i]);**

**}**

**for(i=0;i<n;i++)**

**if(arr[i]%2!=0)**

**{**

**int odd=arr[i];**

**osum+=odd;**

**}**

**else**

**{**

**int even=arr[i];**

**esum+=even;**

**}**

**printf("Sum of odd:%d\n sum of even:%d Diff:%d",osum,esum,osum-esum);**

**return 0;**

***}***

***#coding3 here calucated percentage and we used explicit type conversation***

***Perc=(Float)//explicit conversation total/6***

***#include <stdio.h>***

***int main() {***

***int tel=93;***

***int hin=80;***

***int eng=78;***

***int math=90;***

***int sci=98;***

***int soc=95;***

***int total=tel+hin+eng+math+sci+soc;***

***float perc;***

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

***perc=(float)total/6; //explict type conversation***

***printf("percentage of total marks:.%.0f""%\n",perc);***

***if(perc>70)***

***printf("distiniction");***

***if(perc>=60&&perc<=70)***

***printf("first class");***

***if(perc>=45&&perc<=60)***

***printf("second class");***

***if(perc<=45)***

***printf("fail");***

***return 0;***

***}***

***#coding4 entering marks with user name***

***#include <stdio.h>***

***int main() {***

***int tel,eng,hin,math,sci,soc;***

***float perc;***

***printf("enter telugu marks");***

***scanf("%d",&tel);***

***printf("enter eng marks");***

***scanf("%d",&eng);***

***printf("enter hin marks");***

***scanf("%d",&hin);***

***printf("enter math marks");***

***scanf("%d",&math);***

***printf("enter sci marks");***

***scanf("%d",&sci);***

***printf("enter soc marks");***

***scanf("%d",&soc);***

***int total=tel+eng+hin+math+sci+soc;***

***printf("total marks:",total);***

***perc=(float) total/6;***

***printf("percentage of marks:%.0f""%\n",perc);***

***if(perc>=70)***

***printf("distinction");***

***if(perc>=60&&perc<=70)***

***printf("first class");***

***if(perc>=45&&perc<=60)***

***printf("second class");***

***if(perc<45)***

***printf("fail");***

***return 0;***

***}***

***#feb7 coding 1***

***//to find the even count and odd count in the given array***

**#include <stdio.h>**

**int main()**

**{**

**int a[100],n,i,evenCount=0,oddCount=0;**

**printf("enter size of array:\n");**

**scanf("%d",&n);**

**printf("enter array elements");**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&a[i]);**

**}**

**for(i=0;i<n;i++)**

**{**

**if(a[i]%2!=0)**

**{**

**oddCount++;**

**}**

**else**

**{**

**evenCount++;**

**}**

**}**

**printf("Even count=%d Odd count=%d diff=%d", evenCount,oddCount,evenCount-oddCount)**

**return 0;**

**}**

***#length of the array code2***

**#include <stdio.h>**

**int main() {**

**int arr[] = {1, 2, 3, 4, 5};**

**// Size of an integer in bits**

**int size\_of\_int\_bits = sizeof(int) \* 8; // 8 bits per byte**

**// Total size of the array in bytes**

**int total\_size\_bytes = sizeof(arr);**

**// Size of one element in bits**

**int size\_of\_one\_element\_bits = size\_of\_int\_bits;**

**// Length of the array**

***int length = total\_size\_bytes / sizeof(int);***

**printf("Size of one element: %d bits\n", size\_of\_one\_element\_bits);**

**printf("Total size of the array: %d bytes\n", total\_size\_bytes);**

**printf("Length of the array: %d elements\n", length);**

**return 0;**

**}**

**#example for an array**

**In this case, the total size of the array is 5 \* sizeof(int) bytes**

**Size of int=4bytes**

**1bytes=8bits**

**Total size of one bit=4\*8=32**

**#include <stdio.h>**

**int main() {**

**int arr[] = {1, 2, 3, 4, 5}; // Example array**

**int length =sizeof(arr) / sizeof(arr[0]);**

**printf("Length of the array is:%d %d\n", length,sizeof(arr));**

**return 0;}**

***#to find even number or odd number code 3***

**#include<stdio.h>**

**int main()**

**{**

**int a;**

**printf("enter the number");**

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

**if(a%2==0)**

**{**

**printf("%d is even number",a);**

**}**

**if(a%2!=0)**

**{**

**printf("%d is odd number",a);**

**}**

**return 0;**

**}**

***//to find the given number whether it is a decimal number or not code 4***

**#include <stdio.h>**

**//but here it was wrong**

**int main() {**

**int a;**

**printf("enter a number:");**

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

**if(a%1==0)**

**{**

**printf("%f is not a decimal number",a);**

**}**

**if(a%1!=0)**

**{**

**printf("%d is a decimal",a);**

**}**

**return 0;**

**}**

**Output**

**enter a number:5.6**

**c==0.600000**

**5.60 is a decimal**

***//to find the given number whether it is a decimal number or not***

***Code 5***

**#include <stdio.h>**

**#include<math.h>**

**int main() {**

**float a;**

**printf("enter a number:");**

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

**float c=fmod(a,1);**

**printf("c==%f\n",c);**

**if(c==0)**

**{**

**printf("%fis not a decimal number",a);**

**}**

**if(c!=0)**

**{**

**printf("%.2f is a decimal",a);**

**} return 0;}**

***#FEB 8 coding***

***Code 1***

***to calucate the absolute difference between adjacent numbers and sum of it***

**#include <stdio.h>**

**int main() {**

**int n,a[100],i;**

**printf("enter array size");**

**scanf("%d",&n);**

**printf("enter array of elements");**

**for(i=0;i<n;i++)**

**{**

**scanf("%d",&a[i]);**

**}**

**int index;**

**printf("enter the index");**

**scanf("%d",&index);**

**int d=difference(n,a,index);**

**printf("%d",d);**

**return 0;**

**}**

**int difference(int n,int a[],int index)**

**{**

**int ld=0,rd=0;**

**if(index==0)**

**rd=a[index]-a[index+1];**

**else if(index==n-1)**

**ld=a[index]-a[index-1];**

**else{**

**rd=a[index]-a[index+1];**

**ld=a[index]-a[index-1];**

**}**

**if(rd<0)**

**{**

**rd=rd\*(-1);**

**}**

**if(ld<0)**

**{**

**ld=ld\*(-1);**

**}**

**return ld+rd;**

**}**

**Given the array [10, 20, 30], when the index is 1, it means the element at index 1 is 20.**

**The difference is calculated as the absolute difference between the element at the specified index and its neighboring elements.**

**For index 1:**

* + **Left difference (ld) = |20 - 10| = 10**
  + **Right difference (rd) = |20 - 30| = 10**

**Therefore, the output of the program will be the sum of the left and right differences: 10 + 10 = 20.**

**So, the program should output "20" when the array elements are 10, 20, 30, and the chosen index is 1.**

**You can try running the program with the provided input, and it should give you the output "20".**

Top of Form

**// Online C compiler to run C program online**

***//find the largest of three numbers***

**#include <stdio.h>**

**int main() {**

**int a=20,b=30,c=60;**

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

**{**

**printf("%d is greater",a);**

**}**

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

**{**

**printf("%d is greater",b);**

**}**

**else**

**{**

**printf("%d is greaater",c);**

**}**

**return 0;**

**}**

***#FEB 10 coding***

**The code char s = "H"; is still incorrect because you are attempting to assign a string literal "H" to a single character variable char s. In C, a string literal is treated as an array of characters, not a single character.**

**To assign a single character to a char variable, you should use single quotes 'H' instead of double quotes. Here's the corrected version**:

***#include <stdio.h> int main() { char s = 'H'; // Assigning a single character to variable s // Printing the character stored in s printf("Character stored in 's': %c\n", s); return 0; }***

*In this corrected code,* ***s*** *is declared as a single character variable, and it is initialized with the character*

**#include <stdio.h>**

**int main() {**

**char s[20]; // Array to store the characters**

**// Assigning characters to the array**

**s[0] = 'H';**

**s[1] = 'e';**

**s[2] = 'l';**

**s[3] = 'l';**

**s[4] = 'o';**

**s[5] = '\0'; // Null-terminating character to mark the end of the string**

**// Printing the string stored in the array**

**printf("String stored in 's': %s\n", s); return 0;**

**}/\*1.strings**

**2.print area of triangle**

**3)prime numbers b/w 2 numbers**

**\*/**

**/\*given a string find the frequencies of each of the characters in it ,The input string contains ony lower case letters The output string should contains a letter followed by its frequency in alhabetical order**

**input 1:input string**

**output:specification return a string representing the frequency counts of characters in the input string**

**ex1:input babdc**

**output:a1b2c1d1\*/**

**#include <stdio.h>**

**int main() {**

**char s[100],index;**

**printf("Enter input string:\n");**

**scanf("%s",&s);**

***manaki antha seen ledu leyyyy***

**int arr[26];**

**for(char i=0;s[i]="\0";i++)**

**}return 0;**

**}**

✅. Check if a triangle is equilateral, scalene, or isosceles 🔥write code to find the type of the triangle for given side values by using “==” and “&&” operator and If - else Print “Equilateral triangle.” if values for all side1, side2 and side3 are equal. Print “Isosceles triangle.” if values for side1 is equal to side2 or side2 is equal to side3 Else “Scalene triangle.” since values of all sides are unequal.

2 ✅. Find check if a year is leap year or not 🔥 If year is divisble by 4 and not divisble by 100 then print “leap year”. 🔥 Or if year is divisible by 400 then print “leap year”. 🔥 Else print “not a leap year”.

3 ✅ Write a program that calculates a discount based on the purchase amount.Prices equal or over 100 discount have a discount of 20. Prices equal or over 50 have a discount of 10. Otherwise discount is 0

4 ✅ Write a program that calculates the Body Mass Index (BMI) and categorizes it. The formula for BMI is: weight / (height \* height). Top of Form