**C-Lab-3**

1 : Write a 'C' program to check and print that given number is even or odd without using ternary operator and control statments.

Sample input : int a = 10

Sample Output : EVEN

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Sample input : int a = 125

Sample Output : ODD

**ANS:**

#include <stdio.h>

int main() {

int a;

printf("Enter the num:");

scanf("%d", &a);

a%2==0 && printf(“Even”);

a%2!=0 && printf("Odd”);

return 0;

}

2 : Write a 'C' program to check and print the Maximum number among two numbers without using ternary operator and control statments.

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Sample input : int a = 10 , b = 20

Sample Output : MAX = 20

ANS:

// Online C compiler to run C program online

#include <stdio.h>

int main() {

int a,b,max;

printf("Enter first number:");

scanf("%d",&a);

printf("Enter second number:");

scanf("%d",&b);

max=(a+b+(a-b));

printf("MAX:%d",max);

return 0;

}

3 : Write a 'C' program to check and print the Maximum number among three numbers without using ternary operator and control statements.

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Sample input : int a = 10 , b = 200, c = 134;

Sample Output : MAX = 200

ANS:

#include <stdio.h>

int main() {

int a,b,c,max;

printf("Enter first number:");

scanf("%d",&a);

printf("Enter second number:");

scanf("%d",&b);

printf("Enter third number:");

scanf("%d",&c);

max = a;

(b > max) && (max = b);

(c > max) && (max = c);

printf("MAX: %d\n", max);

return 0;

}

4 : Write a 'C' program to take the marks of a student in 5 subjects as input and determine how many subjects have marks greater than or equal to 35 and how many have marks less than 35.

------- The program should not use any control statements (if, else, switch, etc.) or the ternary operator.

Sample input : int sub1 = 38, sub2 = 34, sub3 = 35, sub4 = 78, sub5 = 20

Sample Output : Pass in 3 subject and fail in 2 subject.

**ANS:**

#include <stdio.h>

int main() {

int sub1, sub2, sub3, sub4, sub5;

int passCount = 0, failCount = 0;

int passingScore = 35;

printf("Enter first score: ");

scanf("%d", &sub1);

printf("Enter second score: ");

scanf("%d", &sub2);

printf("Enter third score: ");

scanf("%d", &sub3);

printf("Enter fourth score: ");

scanf("%d", &sub4);

printf("Enter fifth score: ");

scanf("%d", &sub5);

(sub1 >= passingScore && (passCount++)) || (failCount++);

(sub2 >= passingScore && (passCount++)) || (failCount++);

(sub3 >= passingScore && (passCount++)) || (failCount++);

(sub4 >= passingScore && (passCount++)) || (failCount++);

(sub5 >= passingScore && (passCount++)) || (failCount++);

printf("Number of subjects passed: %d\n", passCount);

printf("Number of subjects failed: %d\n", failCount);

return 0;

}

5 : Write a 'C' program to take the number of days and convert into (days:months:years)

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Sample input : int days = 500

Sample Output : 1 year 4 month and 15 days.

**ANS:**

#include <stdio.h>

int main(){

int n,y,m,w,d;

printf("Enter no of days: ");

scanf("%d", &n);

y=n/365;

m=n%365/30;

w=n%365%30/7;

d=n%365%30%7;

printf("total days:%d year %dmonth %d week %d days",y,m,w,d);

return 0;

}

6 : Write a 'C' program to take the number of seconds and convert into (H:M:S)

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Sample input : int seconds = 3665

Sample Output : 1 hour 1 minute and 5 second

**ANS:**

#include <stdio.h>

int main()

int n,h,m,s;

printf("Enter seconds: ");

scanf("%d", &n);

h=n/3600;

m=n%3600/60;

s=n%60;

printf("duration:%d hour %d minute %d sec",h,m,s);

return 0;

}