

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

=====

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.

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.

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)

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)

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;  
}
```