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Class 4 Lab questions

#1. WAP to test whether a number entered through keyboard is ODD or EVEN.

Code:

```c
#include <stdio.h>
int main()
{
    printf("Provide the integer:\n");
    int a285;
    scanf("%d",&a285);
    if((a285%2==0) && (a285!=0))
    {
        printf("%d is Even\n", a285);
    }
    else if((a285%2!=0) && (a285!=0))
    {printf("%d is odd",a285);}
    else{
        printf("0 is niether odd nor even!!!");
    }
    return 0;
}
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\KIIT\Desktop\Programming\class5> gcc Evenodd.c
PS C:\Users\KIIT\Desktop\Programming\class5> ./a.exe
Provide the integer:
880
880 is Even
PS C:\Users\KIIT\Desktop\Programming\class5>
```

```
PS C:\Users\KIIT\Desktop\Programming\class5> ./a.exe
Provide the integer:
0
0 is niether odd nor even!!!
PS C:\Users\KIIT\Desktop\Programming\class5>
```

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#2. WAP to input any two integers distinct and display the greater of two integers.

Code:

```c
#include <stdio.h>
int main()
{
    printf("Provide the numbers you want to compare:\n");
    float a285,b285;
    scanf("%f%f",&a285,&b285);
    if (a285<b285) {
        printf("The larger number is %f",b285);
    }
    else if(a285>b285)
    {
        printf("The larger number is %f",a285);
    }
    else
    {printf("The numbers must be distinct!");}
    return 0;
}
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\KIIT\Desktop\Programming\class5> gcc compare.c
PS C:\Users\KIIT\Desktop\Programming\class5> ./a.exe
Provide the numbers you want to compare:
8754 9754
The larger number is 9754.000000
PS C:\Users\KIIT\Desktop\Programming\class5>
```

```
PS C:\Users\KIIT\Desktop\Programming\class5> ./a.exe
Provide the numbers you want to compare:
8900 8900
The numbers must be distinct!
PS C:\Users\KIIT\Desktop\Programming\class5>
```

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#3. WAP which takes two integer operands and one operator form the user, performs the operation and then prints the result. (Consider the operators +,-,*, /, % etc). Use switch cse.

Code:

```c
#include <stdio.h>
int main()
{
    printf("which operation do you want to perform:\n");
    int a285,c285;
    printf("1 for addition\n");
    printf("2 for subtraction\n");
    printf("3 for division\n");
    printf("4 for multiplication\n");
    printf("5 for modulus calc\n");
    scanf("%d", &a285);
    int one285,two285;
    printf("please provide the numbers you want to operate with;\n");
    scanf("%d%d",&one285,&two285);
    switch(a285)
    {
        case 5: c285=one285%two285;
        printf("%d", c285);
        break;
        case 4: c285=one285*two285;
        printf("%d",c285);
        break;
        case 3: c285=one285/two285;
        printf("%d",c285);
        break;
        case 2: c285=one285-two285;
        printf("%d",c285);
        break;
        case 1: c285= one285+two285;
        printf("%d",c285);
        break;
        default: printf("NA");

    }
    return 0;
}
```

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Output: