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Class 4 Lab questions

#1. WAP to swap two integer numbers using third variable.

Code:

```c
#include <stdio.h>
int main()
{
    printf("provide the numbers you want to swap respectively\n");
    int a426,b426,c426;
    scanf("%d%d",&a426,&b426);
    printf("The numbers before swapping are %d and %d\n",a426,b426);
    c426=a426;
    a426=b426;
    b426=c426;
    printf("after swap, the numbers are %d and %d\n",a426,b426);
    return 0;
}
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\KIIT\Desktop\Programming\class2> gcc swap.c
PS C:\Users\KIIT\Desktop\Programming\class2> ./a.exe
provide the numbers you want to swap respectively
76654 856
The numbers before swapping are 76654 and 856
after swap, the numbers are 856 and 76654
PS C:\Users\KIIT\Desktop\Programming\class2>
```

```
PS C:\Users\KIIT\Desktop\Programming\class2> ./a.exe
provide the numbers you want to swap respectively
654 986
The numbers before swapping are 654 and 986
after swap, the numbers are 986 and 654
```

#2. WAP to convert given paisa into its equivalent rupee and paisa as per the following format. Example. 550 paisa = 5 Rupee and 50 paisa

Code:

```c
#include <stdio.h>
int main()
{
    printf("Please state your paisa:\n");
    int total426,qou426,rem426;
    scanf("%d",&total426);
    qou426=total426/100;
    rem426= total426%100;
    printf("%d paisa is %d rupees and %d paisa",total426,qou426,rem426);
    return 0;
}
```

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Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\KIIT\Desktop\Programming\class3> gcc paisa.c
PS C:\Users\KIIT\Desktop\Programming\class3> ./a.exe
Please state your paisa:
76755
76755 paisa is 767 rupees and 55 paisa
PS C:\Users\KIIT\Desktop\Programming\class3>
```

```
PS C:\Users\KIIT\Desktop\Programming\class3> ./a.exe
Please state your paisa:
9999
9999 paisa is 99 rupees and 99 paisa
PS C:\Users\KIIT\Desktop\Programming\class3>
```

#3. WAP to convert given second into its equivalent hour, minute and second as per the following format. Example. 7560 second = 2 Hour, 27 Minute and 40 Second

Code:

```c
#include <stdio.h>
int main()
{
  long given426, hour426, sec426, min426, last426;
  printf("Provide the total seconds\n");
  scanf("%ld",&given426);
  hour426=given426/3600;
  sec426= given426%3600;
  min426= sec426/60;
  last426= sec426%60;
  printf("%ld seconds is %ld hours %ld minutes and %ld
seconds",given426,hour426,min426,last426);
  return 0;
}
```

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Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\KIIT\Desktop\Programming\class3> gcc hour.c
PS C:\Users\KIIT\Desktop\Programming\class3> ./a.exe
Provide the total seconds
6533
6533 seconds is 1 hours 48 minutes and 53 seconds
PS C:\Users\KIIT\Desktop\Programming\class3>
```

```
PS C:\Users\KIIT\Desktop\Programming\class3> ./a.exe
Provide the total seconds
9999
9999 seconds is 2 hours 46 minutes and 39 seconds
PS C:\Users\KIIT\Desktop\Programming\class3>
```

#4. WAP to subtract a number from another number and display the result.

Code:

```c
#include <stdio.h>
int main()
{
    printf("provide the numbers you want to subtract respectively\n");
    float a426,b426,c426;
    scanf("%f%f",&a426,&b426);
    c426=a426-b426;
    printf("the result %f-%f=%f",a426,b426,c426);
    return 0;
}
```

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Output:

```
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PS C:\Users\KIIT\Desktop\Programming\class4> gcc sub.c
PS C:\Users\KIIT\Desktop\Programming\class4> ./a.exe
provide the numbers you want to subtract respectively
24 657
the result 24.000000-657.000000=-633.000000
PS C:\Users\KIIT\Desktop\Programming\class4>
```

```
PS C:\Users\KIIT\Desktop\Programming\class4> ./a.exe
provide the numbers you want to subtract respectively
435 999
the result 435.000000-999.000000=-564.000000
PS C:\Users\KIIT\Desktop\Programming\class4>
```

#5. WAP to calculate perimeter of a circle.

Code:

```c
#include <stdio.h>
int main()
{
    printf("give the radius of your circle:\n");
    float rad426,per426;
    scanf("%f",&rad426);
    per426 = 3.14*rad426*2;
    printf("The perimeter of your circle is %f",per426);
    return 0;
}
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

PS C:\Users\KIIT\Desktop\Programming\class4> gcc circle.c
PS C:\Users\KIIT\Desktop\Programming\class4> ./a.exe
give the radius of your circle:
34
The perimeter of your circle is 213.520004
PS C:\Users\KIIT\Desktop\Programming\class4>
```

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```
PS C:\Users\KIIT\Desktop\Programming\class4> ./a.exe
give the radius of your circle:
100
The perimeter of your circle is 628.000000
PS C:\Users\KIIT\Desktop\Programming\class4>
```

#6. WAP to find the largest between two numbers.

Code:

```c
#include <stdio.h>
int main()
{
    printf("Provide the numbers you want to compare:\n");
    float a426,b426;
    scanf("%f%f",&a426,&b426);
    if (a426<b426) {
        printf("The larger number is %f",b426);
    }
    else {
        printf("The larger number is %f",a426);
    }
    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:
35 56
The larger number is 56.000000
PS C:\Users\KIIT\Desktop\Programming\class5>
```

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```
PS C:\Users\KIIT\Desktop\Programming\class5> ./a.exe
Provide the numbers you want to compare:
865 759
The larger number is 865.000000
PS C:\Users\KIIT\Desktop\Programming\class5>
```