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Section A11

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### Class 4 Lab questions

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

Code:

```
#include <stdio.h>
int main()
{
    printf("provide the numbers you want to swap respectively\n");
    int a285,b285,c285;
    scanf("%d%d",&a285,&b285);
    printf("The numbers before swapping are %d and %d\n",a285,b285);
    c285=a285;
    a285=b285;
    b285=c285;
    printf("after swap, the numbers are %d and %d\n",a285,b285);
    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
89 107
The numbers before swapping are 89 and 107
after swap, the numbers are 107 and 89
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:

```
#include <stdio.h>
int main()
{
    printf("Please state your paisa:\n");
    int total285,qou285,rem285;
    scanf("%d",&total285);
    qou285=total285/100;
    rem285= total285%100;
    printf("%d paisa is %d rupees and %d paisa",total285,qou285,rem285);
    return 0;
}
```

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:
5372
5372 paisa is 53 rupees and 72 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:

```
#include <stdio.h>
int main()
{
    long given285, hour285, sec285, min285, last285;
    printf("Provide the total seconds\n");
    scanf("%ld",&given285);
    hour285=given285/3600;
    sec285= given285%3600;
    min285= sec285/60;
    last285= sec285%60;
    printf("%ld seconds is %ld hours %ld minutes and %ld
seconds",given285,hour285,min285,last285);
    return 0;
}
```

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Output:

```
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PS C:\Users\KIIT\Desktop\Programming\class3> gcc hour.c
PS C:\Users\KIIT\Desktop\Programming\class3> ./a.exe
Provide the total seconds
76449
76449 seconds is 21 hours 14 minutes and 9 seconds
PS C:\Users\KIIT\Desktop\Programming\class3> █
```

```
76449 seconds is 21 hours 14 minutes and 9 seconds
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:

```
#include <stdio.h>
int main()
{
    printf("provide the numbers you want to subtract respectively\n");
    float a285,b285,c285;
    scanf("%f%f",&a285,&b285);
    c285=a285-b285;
    printf("the result %f-%f=%f",a285,b285,c285);
    return 0;
}
```

Output:

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL

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
987 567
the result 987.000000-567.000000=420.000000
PS C:\Users\KIIT\Desktop\Programming\class4> █
```

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```
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:

```
#include <stdio.h>
int main()
{
    printf("give the radius of your circle:\n");
    float rad285,per285;
    scanf("%f",&rad285);
    per285 = 3.14*rad285*2;
    printf("The perimeter of your circle is %f",per285);
    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:
45
The perimeter of your circle is 282.600006
PS C:\Users\KIIT\Desktop\Programming\class4> █
```

```
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> █
```

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

Code:

```
#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 {
        printf("The larger number is %f",a285);
    }
    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:
643 644
The larger number is 644.000000
PS C:\Users\KIIT\Desktop\Programming\class5> █
```

```
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> █
```