C PROGRAMMING ASSIGNMENT: 17

DATE: 06.01.22

SUBMITTED BY: -

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BRANCH: CSE

SECTION: B22

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1.WAP to find sum of two integers using pointers

Code:

```
#include<stdio.h>
int main(int argc, char const *argv[])
{
    int a, b, *p, *q, sum;

    printf("Enter two integers to add\n");
    scanf("%d%d", &a, &b);
    p = &a;
    q = &b;
    sum = *p + *q;
    printf("Sum of the numbers = %d\n", sum);
    return 0;
}
```

```
Windows PowerShell
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\CodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile } Enter two integers to add 2 6
Sum of the numbers = 8
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\06jan22_17> []
```

2. WAP to swap two numbers using pointers

Code:

```
#include <stdio.h>

int main()
{
    int x, y, *a, *b, temp;
    printf("Enter the value of x and y\n");
    scanf("%d%d", &x, &y);
    printf("Before Swapping\nx = %d\ny = %d\n", x, y);
    a = &x;
    b = &y;
    temp = *b;
    *b = *a;
    *a = temp;
    printf("After Swapping\nx = %d\ny = %d\n", x, y);
    return 0;
}
```

```
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\O -o 2 }; if ($?) { .\2 }

Enter the value of x and y
2 4

Before Swapping

x = 2

y = 4

After Swapping

x = 4

y = 2

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\06jan22_17> []
```

WAP to find greater of 2 nos

Code:

```
#include <stdio.h>

void main()
{
    int x, y, *large, *a, *b;
    printf("Enter the value of x and y :");
    scanf("%d%d", &x, &y);
    a = &x;
    b = &y;
    if (*a > *b)
        large = a;
    else
        large = b;
    printf("The greater number is : %d", *large);
}
```

```
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\empCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile } Enter the value of x and y :3 6

The greater number is : 6

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\06jan22_17> [
```

4. WAP tofind middle integer of an array of five integers using pointers

Code:

```
#include <stdio.h>
int main()
    int data[5], *a, t, i, j;
   printf("Enter elements: \n");
   for (i = 0; i < 5; ++i)
    {
        printf("Enter element at index %d\n", i);
       scanf("%d", data + i);
   for (i = 0; i < 5; ++i)
       printf("%d\t", data[i]);
    for (i = 0; i < 5; ++i)
    {
        for (j = i + 1; j < 5; ++j)
            if (data[i] > data[j])
            {
                t = data[i];
                data[i] = data[j];
                data[j] = t;
        }
   printf("\nAscending order:\n");
   for (int i = 0; i < 5; ++i)</pre>
```

```
printf("%d\t", data[i]);
}
a = data;
printf("\n %d\n", *(a + 2));
return 0;
}
```

```
Windows PowerShell
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\Desktop\C programming\
  -0 4 } ; if ($?) { .\4 }
Enter elements:
Enter element at index 0
Enter element at index 1
Enter element at index 2
Enter element at index 3
Enter element at index 4
4
                                                                                  5
                                                                                                                          6
                                        4
                                                                                                                                                                   4
Ascending order:
3
                                                                                  4
                                                                                                                           5
                                                                                                                                                                    6
                                       4
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\06jan22_17> |
```

5. WAP to add elements in an array using pointers

Code:

```
#include <stdio.h>
int main()
{
    int i, *ptr, sum = 0, arr[5] = {2, 4, 6, 8, 0};
    ptr = arr;
    for (i = 0; i < 5; ++i)
    {
        sum = sum + (*ptr + i);
    }
    printf("sum=%d",sum);
    return 0;
}</pre>
```

```
Windows PowerShell
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KII .c -o 5 }; if ($?) { .\5 } sum=20

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\06jan22_17>
```