C PROGRAMMING ASSIGNMENT:

18

DATE: 07.01.22

SUBMITTED BY: -

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BRANCH: CSE

SECTION: B22

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```
1.WAP find sum of first n elements of 2 arrays,
return 0(equal sum), 1(1st array sum is larger) or 2(2nd array sum is larger)*/
```

```
#include <stdio.h>
int large_sum(int *a, int *b,int n)
    int s1 = 0, s2 = 0;
   for (int i = 0; i < n; i++)
    {
        s1 += a[i];
       s2 += b[i];
   printf("Sum of 1st array: %d\n", s1);
   printf("Sum of 2nd array: %d\n", s2);
   if (s1 == s2)
       return 0;
   else if (s1 > s2)
       return 1;
       return 2;
int main(int argc, char const *argv[])
    int x[20], y[20], g,a;
    printf("Specify length of array\n");
   scanf("%d", &a);
   printf("Enter data of 1st array\n");
   for (int i = 0; i < a; i++)</pre>
    {
        printf("Enter data of array index %d\n ", i);
        scanf("%d", &x[i]);
```

```
printf("Enter data of 2nd array\n");
for (int i = 0; i < a; i++)
{
    printf("Enter data of array index %d\n ", i);
    scanf("%d", &y[i]);
}
g = large_sum(&x,&y,a);
if (g == 0)
    printf("\nSum of arrays are equal");
else if (g == 1)
    printf("\nSum of 1st array is more than that of 2nd array");
else if (g == 2)
    printf("\nSum of 2nd array is more than that of 1st array");
return 0;
}</pre>
```

```
Specify length of array
Enter data of 1st array
Enter data of array index 0
Enter data of array index 1
Enter data of array index 2
Enter data of array index 3
Enter data of array index 4
Enter data of 2nd array
Enter data of array index 0
Enter data of array index 1
Enter data of array index 2
Enter data of array index 3
Enter data of array index 4
8
Sum of 1st array: 25
Sum of 2nd array: 22
Sum of 1st array is more than that of 2nd array
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\07jan22_lab18> |
```

2. WAP for swapping by call by reference

```
#include <stdio.h>
int swap(int *a, int *b)
  int temp;
  temp = *b;
  *b = *a;
  *a = temp;
  return 0;
int main()
   int x, y;
  printf("Enter the value of x and y\n");
  scanf("%d%d",&x,&y);
  printf("Before Swapping\nx = %d\ny = %d\n", x, y);
  swap(&x, &y);
  printf("After Swapping\nx = %d\ny = %d\n", x, y);
```

```
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDrive\Deskt
c tempCodeRunnerFile.c -o tempCodeRunnerFile } ; if ($?) { .\tempCodeRunnerFile }
Enter the value of x and y
2 7
Before Swapping
x = 2
y = 7
After Swapping
x = 7
y = 2
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\07jan22_lab18> []
```

Code:

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\One c 3.c -0 3 }; if ($?) { .\3 }

Enter a number: 8

Factorial of 8 is: 40320

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\07jan22_lab18> []
```

4. WAP to find palindrome number using call by reference

```
#include <stdio.h>
void check(int n, int *p)
   int r, rev = 0;
   while (n > 0)
       r = n \% 10;
       rev = rev * 10 + r;
       n = n / 10;
   *p = rev;
int main()
    int n, p = 0;
   printf("Enter a number:");
   scanf("%d", &n);
   check(n, &p);
   if (p == n)
   {
       printf("Number is palindrome");
       printf("Number is not palindrome");
```

```
Windows PowerShell
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PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneD c 4.c -0 4 }; if ($?) { .\4 }

Enter a number:303

Number is palindrome
PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\07jan22_lab18> []
```

5. WAP to find number of a's in the given characters array.

```
#include <stdio.h>
int main()
   char a[] = "Yudhistir", b[] = "Bhim", c[] = "Arjun", d[] = "Nakul", e[] = "Sahadev";
   char *p[5];
   int i, j, count = 0;
   p[0] = a;
   p[1] = b;
   p[2] = c;
   p[3] = d;
   p[4] = e;
   for (i = 0; i < 5; i++)
   {
       for (j = 0; p[i][j]; j++)
           count += p[i][j] == 'a';
   printf("\nCount = %d", count);
   return 0;
```

```
Windows PowerShell
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Try the new cross-platform PowerShell https://aka.ms/pscore6

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab> cd "c:\Users\KIIT\OneDr c 5.c -0 5 }; if ($?) { .\5 }

Count = 3

PS C:\Users\KIIT\OneDrive\Desktop\C programming\lab\07jan22_lab18>
```