PF-LAB-9-ASSIGNMENT

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>gcc 1.c -o 1.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>1.exe

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D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```

```
c 2.c > ② main()
    #include <stdio.h>
    char* numCheck(int a) {
        if(a % 2 == 0) {
            return "Even";
        } else {
            return "Odd";
        }
        }
        void main() {
        int b = 19;
        char* result = numCheck(b);
        printf("%d is %s", b, result);
        }
}
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>2.exe
Enter any number: 7
7 is Odd
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>2.exe
Enter any number: 6
6 is Even
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```

```
C 3.c > 分 main()
      #include <stdio.h>
      #include <string.h>
      void main() {
          char dest[20];
          char src[20];
          int n;
          printf("Enter your destination string: \n");
          scanf("%s" dest);
          printf("Enter your source string: \n");
          scanf("%s", src);
          printf("Enter the number of characters you want to append: \n");
          scanf("%d", &n);
          strncat(dest, src, n);
          printf("Resulting destination string:\n%s", dest);
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```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>3.exe
Enter your destination string:
world
Enter your source string:
wide
Enter the number of characters you want to append:
2
Resulting destination string:
worldwi
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```

```
C 4.c > 分 main()
      #include <stdio.h>
      #include <string.h>
      void main() {
          char words[5][50]={"apple", "banana", "cherry", "dragon fruit", "elderberry"};
          char inp[50];
         int found=0;
          printf("Enter a word to check: \n");
          scanf("%s", inp);
 8
          for(int i=0; i<5; i++) {
              if(strcmp(words[i], inp) == 0) {
                  found=1;
          if(found) {
              printf("Found\n");
              printf("Not Found\n");
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>d.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>d.exe
Enter a word to check:
apple
Found

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>d.exe
Enter a word to check:
Apple
Not Found

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```

```
5.c > 😭 main()
     #include <stdio.h>
     #include <string.h>
     int isPalindrome(char words[]) {
         int len = strlen(words);
         for(int i=0; i < len / 2; i++) {
              if(words[i] != words[len - i - 1]) {
     void main() {
         char words[5][30];
         printf("Enter 5 words:\n");
         for(int i=0; i<5; i++) {</pre>
             printf("Word#%d:", i+1);
              scanf("%s", words[i]);
          for(int i=0; i<5; i++) {
              if(isPalindrome(words[i])) {
                  printf("\n%s: Palindrome", words[i]);
              } else {
                 printf("\n%s: Not Palindrome", words[i]);
25
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>gcc 5.c -o 5.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>5.exe
Enter 5 words:
Word#1:mam
Word#2:animal
Word#3:madam
Word#4:racecar
Word#5:plant

mam: Palindrome
animal: Not Palindrome
madam: Palindrome
plant: Not Palindrome
plant: Not Palindrome
plant: Not Palindrome
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>gcc 6.c -o 6.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>6.exe
Enter two values:
34
43
Before Swapping:
a:34
b:43
After Swapping:
a:43
b:34

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```

```
C 7.c > 分 main()
      #include <stdio.h>
      int isPrime(int num) {
          if(num==0 || num==1) {
          for(int i=2; i <= num/2; i++) {
              if(num%i ==0) {
                  break;
              }
      void main() {
          int num, found;
          printf("Enter any number: ");
          scanf("%d", &num);
          if(isPrime(num) == 1) {
              printf("%d is a Prime Number", num);
19
              printf("%d is not a Prime Number", num);
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>gcc 7.c -o 7.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>7.exe
Enter any number: 73

73 is a Prime Number

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>7.exe
Enter any number: 72

72 is not a Prime Number

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>gcc 8.c -o 8.exe

D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>8.exe
Enter any two integers: 52
26

Enter any arithmetic operation (+,-,*,/): /

52 / 26 = 2
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>8.exe
Enter any two integers: 17
23

Enter any arithmetic operation (+,-,*,/): -

17 - 23 = -6
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```

```
    9.c > 分 main()

      #include <stdio.h>
     #include <string.h>
     char*revStr(char str[]) {
          int len = strlen(str);
          for(int i=0; i <len/2; i++) {</pre>
              char temp = str[i];
              str[i] = str[len - i - 1];
              str[len - i -1] = temp;
          return str;
     void main() {
         char str[200];
         printf("Enter a String: ");
          fgets(str, sizeof(str), stdin);
          str[strcspn(str, "\n")] = '\0';
          printf("Reversed String: %s\n", revStr(str));
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```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>9.exe
Enter a String: what is happening?
Reversed String: ?gnineppah si tahw
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```

```
#include <stdio.h>
     int maxNum(int arr[], int k) {
          int max = arr[0];
         for(int i=1; i<k; i++) {</pre>
              if(arr[i] > max) {
                  \max = arr[i];
         return max;
    v int minNum(int arr[], int k) {
         int min = arr[0];
          for(int i=1; i<k; i++) {
             if(arr[i] < min) {</pre>
                 min = arr[i];
          return min;
20 ∨ void main() {
         int k
         printf("Enter the number of elements in the array: ");
         scanf("%d", &k);
          int arr[k];
          for(int i=0; i<k; i++) {
              printf("Enter element %d: ", i+1);
              scanf("%d", &arr[i]);
          printf("\nMaximum Number in the Array: %d", maxNum(arr, k));
          printf("\nMinumum Number in the Array: %d", minNum(arr, k));
```

```
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>10.exe
Enter the number of elements in the array: 8
Enter element 1: 242
Enter element 2: 142
Enter element 3: 2
Enter element 4: 122
Enter element 5: 422
Enter element 6: 244
Enter element 7: 212
Enter element 8: 234

Maximum Number in the Array: 422
Minumum Number in the Array: 2
D:\MY ASSIGNMENTS\PF-LAB-ASSIGNMENT\LAB-9>
```