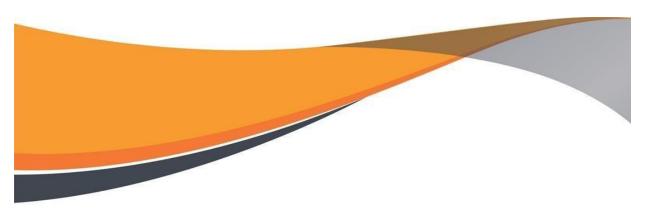
ASSIGNEMENT Submitted By Aneesh Sangran 2023A7R007 SEMISTER 01 Department - CSE (Cyber Security)



Model Institute Of Engineering & Technology
(Autonomous)
(Permanently Affiliated to the University of Jammu,
Accredited by NAAC with "A" Grade)
Jammu, India
2024



Q1:- Write the C program for check the given string is in password validation.

Ans -

```
#include <stdio.h>
#include <string.h>
#include <ctype.h>
int isPasswordValid(char *password)
{
  int length = strlen(password);
  if (length < 8)
  {
    return 0;
  }
  int hasUppercase = 0;
  for (int i = 0; i < length; i++)
  {
    if (isupper(password[i]))
    {
       hasUppercase = 1;
      break;
    }
```

```
}
if (!hasUppercase)
{
  return 0;
}
int hasLowercase = 0;
for (int i = 0; i < length; i++)
{
  if (islower(password[i]))
  {
    hasLowercase = 1;
    break;
  }
}
if (!hasLowercase)
{
  return 0;
}
int hasDigit = 0;
for (int i = 0; i < length; i++)
```

```
{
    if (isdigit(password[i]))
    {
       hasDigit = 1;
       break;
    }
  }
  if (!hasDigit)
  {
    return 0;
  }
  return 1;
}
int main()
{
  char password[50];
  printf("Enter the password: ");
  scanf("%s", password);
  if (isPasswordValid(password))
```

```
{
    printf("Password is valid.\n");
}
else
{
    printf("Password is not valid.\n");
}

return 0;
}

PS D:\College Program\Assignement> gcc assignement03.c
PS D:\College Program\Assignement> .\a.exe
```

Q2:- Write a C program to find the maximum and minimum element in an array.

<u>Ans –</u>

```
#include <stdio.h>
void findMinMax(int arr[], int size, int *max, int *min)
{
```

Enter the password: Aneesh

PS D:\College Program\Assignement>

Password is not valid.

```
*max = *min = arr[0];
  for (int i = 1; i < size; ++i)
  {
    if (arr[i] > *max)
    {
       *max = arr[i];
    else if (arr[i] < *min)
    {
       *min = arr[i];
    }
  }
int main()
  int size;
  printf("Enter the size of the array: ");
  scanf("%d", &size);
  int arr[size];
```

}

{

```
printf("Enter %d elements of the array:\n", size);
  for (int i = 0; i < size; ++i)
  {
    scanf("%d", &arr[i]);
  }
  int max, min;
  findMinMax(arr, size, &max, &min);
  printf("Maximum element: %d\n", max);
  printf("Minimum element: %d\n", min);
  return 0;
}
```

```
PS D:\College Program\Assignement> gcc assignement04.c
PS D:\College Program\Assignement> .\a.exe
Enter the size of the array: 5
Enter 5 elements of the array:
21
23
43
54
67
Maximum element: 67
Minimum element: 21
PS D:\College Program\Assignement>
```