

① Assignment-15

```
#include <stdio.h>
```

```
void max(int a[], int n);
```

```
int main()
```

```
{
```

```
    int n, i
```

```
    printf("enter a value");
```

```
    scanf("%d", &n);
```

```
    int arr[n];
```

```
    printf("enter value for arr");
```

```
    for (i = 0; i < n; i++)
```

```
        scanf("%d", arr[i]);
```

```
    max = (arr, n);
```

```
    return 0;
```

```
}
```

```
void max(int a[], int n)
```

```
{
```

```
    int maxi, i;
```

```
    maxi = arr[0];
```

```
    for (i = 0; i < n; i++)
```

```
    {
```

```
        if (maxi < a[i])
```

```
            maxi = a[i];
```

```
    }
```

```
    printf("maximum num = %d", maxi);
```

```
}
```

```

② #include <stdio.h>
void min (int a[], int n);
int main()
{
    int n, i;
    printf("Enter a number");
    scanf("%d", &n);
    int arr[n];
    printf("Enter a array number");
    for (i=0; i<n; i++)
        scanf("%d", &arr[i]);
    min (arr, n);
    return 0;
}

```

```

void min (int a[], int n)
{
    int minimum, i;
    for (i=0; i<n; i++)
    if (arr[i] < minimum)
    minimum = arr[0];
    for (i=0; i<n; i++)
    {
        if (minimum > arr[i])
            minimum = arr[i];
    }
}

```


printf ("minimum number = %d", minimum);

```
{
③ #include <stdio.h>
void sort (int arr[], int n);
int main()
{
    int n, i;
    printf ("enter a number");
    scanf ("%d", &n);
    int arr[n];
    printf ("enter array number");
    for (i = 0; i < n; i++);
        scanf ("%d", &arr[i]);
    sort (arr, n);
    return 0;
}
```

```
void sort (int arr[], int n)
```

```
{
    int j, i, temp;
    for (i = 0; i < n-1; i++)
    {
        for (j = i+1; j < n; j++)
        {
            if (arr[j] < arr[i])
            {
                temp = arr[j];
                arr[j] = arr[i];
                arr[i] = temp;
            }
        }
    }
}
```

```
for (i=0; i<n; i++)
```

```
printf("sort number=%d", arr[i]);
```

```
}  
④ #include <stdio.h>  
void rotate(int arr[], int n, int p),  
int main()
```

```
{  
    int n, i, p;  
    printf("Enter a number");  
    scanf("%d", &n);  
    printf("Enter rotating number");  
    scanf("%d", &p);  
    int arr[n];  
    printf("Enter array number");  
    for (i=0; i<n; i++)  
        scanf("%d", arr[i]);  
    rotate(arr, n, p);  
    return 0;  
}
```

```
void rotate(int arr[], int n, int p)
```

```
{  
    int i, j;  
    for (j=p; j<n; j++)  
        printf("%d", arr[j]);  
    for (i=0; i<p; i++)  
        printf("%d", arr[i]);  
}
```



```

⑤ #include <stdio.h>
void duplicate (int a[], int n);
int main()
{
    int n, i;
    printf("Enter a number");
    scanf("%d", &n);
    int arr[n];
    printf("Enter array element");
    for(i=0; i<n; i++)
        scanf("%d", &arr[i]);
    duplicate(arr, n);
    return 0;
}

```

```

void duplicate (int a[], int n)
{
    int i, j;
    for(i=0; i<n-1; i++)
    {
        for(j=1+i; j<n; j++)
        {
            if(a[i] == a[j])
                printf("%d", arr[i])
        }
    }
}

```

```

⑥ #include <stdio.h>
void reverse(int a[], int n);
int main()
{
    int n, i;
    printf("Enter a number");
    scanf("%d", &n);
    int arr[n];
    printf("Enter array element");
    for (i=0; i<n; i++)
        scanf("%d", &arr[i]);
    reverse(arr, n);
    return 0;
}

```

```

void reverse(int a[], int n)
{
    int j;
    for (j=n-1; j>=0; j--)
        printf("%d", a[j]);
}

```

② #include <stdio.h>

~~int main~~

void totalduplicate(int a[], int n);

int main()

{

int n, i;

printf("Enter a number");

scanf("%d", &n);

int arr[n];

printf("Enter array element");

for (i=0; i<n; i++)

scanf("%d", &arr[i]);

totalduplicate(arr, n);

return 0;

}

void totalduplicate(int a[], int n)

{

int i, j, count = 0;

for (i=0; i<n-1; i++)

{ for (j=i+1; j<n; j++)

{ if (a[i] == a[j])

count++;

}

}

printf("Total duplicate num = %d", count);

}


```

⑧ #include <stdio.h>
void unique(char p[]);
int main()
{
    char arr[500];
    printf("Enter string");
    fgets(arr, 500, stdin);
    unique(str);
    return 0;
}

```

```

void unique(char p[])
{

```

```

    int l, i, j, temp, m;
    l = strlen(p);
    m = l - 1;
    for(i = 0; i < m - 1; i++)
    {

```

```

        for(j = 0; j < m; j++)
        {

```

```

            if (p[i] != p[j])
            {

```

```

                int temp;
                temp = str[i];
                str[i] = str[j];
                str[j] = temp;
            }
        }
    }

```

```

    for(i = 0; i < m; i++)
    {

```

```

        for(j = i; j <= i + 1; j++)
        {

```

```

            if (str[i] != str[j])
            {

```

```

                printf("%c", str[i]);
            }
        }
    }
}

```



```
⑨ #include <stdio.h>
void twoarray(char a[], char b[]);
int main()
```

```
{
    int
    char arr[40], p[40];
    printf("Enter string same size");
    fgets(arr, 40, stdin);
    fgets(p, 40, stdin);
    return 0;
}
```

```
void twoarray(char a[], char b[]) {
```

```
    int l;
    l =
    strcat(a, b);
    l = strlen(a);
    for(int i=0; i<l-1; i++)
    {
        for(int j=l+i; j<l; j++)
        {
            if(strstr[i]<str[j]) {
                int temp;
                temp = str[i];
                str[i] = str[j];
                str[j] = temp;
            }
        }
    }
```

```
    for(i=0; i<l; i++)
    {
        printf("%c", str[i]);
    }
}
```

```

⑩ #include <stdio.h>
void frequency(char a[]);
int main()
{
    int char str[50];
    printf("enter a string");
    fgets(str, 50, stdin);
    frequency(str);
    return 0;
}

```

```

void frequency(char a[])
{

```

```

    int l, i, m, j;

```

```

    l = strlen(a);

```

```

    m = l - 1;

```

```

    for (i = 0; i < m; i++)

```

```

    {
        for (j = 1; j < m; j++)

```

```

        {
            if (aa[i] == b[j])

```

```

                count++;

```

```

        }
        printf("char = %c \n", a[i], count);
        count = 0;
    }
}

```