## **Assignment 8**

1. Find minimum and maximum number in array.

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//Max number in array
int main()
   int arr[3];
   int i;
   for(i=0; i<3; i++){
          printf("Enter the value:");
          scanf("%d", &arr[i]);
   }max(arr);
          min(arr);
void min(int *ptr){
   int min = ptr[0];
   int i;
for(i = 1; i < 3; i++){
   if(ptr[i]<min){</pre>
          min = ptr[i];
}
printf("Min :%d\n",min);
void max(int *ptr){
   int max = ptr[0];
   int i;
for(i = 1; i < 3; i++){
   if(ptr[i]>max){
          max = ptr[i];
   }
printf("Max :%d",max);
2. Search the given number in array.
// Search the given number in array.
int main()
{
   int arr[5] = \{23, 56, 78, 96, 57\};
   int num;
   printf("Enter a number :");
   scanf("%d", &num);
```

```
search(arr, num);
void search(int *arr, int num){
   int i, flag = 0;
   for(i=0; i<5; i++)
         if(arr[i]==num){
         flag = 1;
         break;
   if(flag == 0)
   printf("Number not found");
   else
   printf("Number found at %d index", i);
3. Find sum of all numbers.
// Find sum of all numbers.
int main()
   int arr[5] = \{1, 4, 6, 7, 3\};
   sum(arr);
void sum(int *arr){
   int i, sum=0;
   for(i=0; i<5; i++){
         sum = sum + arr[i];
   }printf("%d", sum);
}
4. Find odd and even among the numbers.
//Even odd using array
int main()
{
   int arr[5];
   printf("Enter 1st value: ");
   scanf("%d", &arr[0]);
   printf("Enter 2nd value: ");
   scanf("%d", &arr[1]);
   printf("Enter 3rd value: ");
   scanf("%d", &arr[2]);
   printf("Enter 4th value: ");
```

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scanf("%d", &arr[3]);
   printf("Enter 5th value: ");
   scanf("%d", &arr[4]);
  even(arr);
  odd(arr);
}
void even(int *arr){
   printf("even: ");
   int i;
   for(i=0; i<5;i++){
          if(arr[i]\%2==0){
                printf(" %d", arr[i]);
}
void odd(int *arr){
         printf("\nodd:");
          int j;
   for(j=0; j<5; j++){
         if(arr[j]\%2!=0){
                printf(" %d", arr[j]);
5. Print alternate elements in array.
//Print alternate elements in array.
int main()
   int arr[5] = \{3, 5, 7, 4, 8\};
   alternate(arr);
}
void alternate(int*arr){
   int i;
   for(i=0; i<5; i=i+2){
          printf(" %d", arr[i]);
   }
6. Accept array and print only prime numbers of array.
//Accept array and print only prime numbers of array.
int main()
```

```
int arr[6] = \{1, 3, 5, 7, 8, 9\};
   prime(arr);
void prime(int*arr){
   int i, flag = 0;
   for(i=0; i<6; i++)
          if(arr[i]==1 || arr[i]==0)
   {
          flag = 1;
   }
          int j;
          for(j=2; j<arr[i]; j++){}
                 flag = 0;
                 if(arr[i]%j==0){
                        flag = 1;
                        break;
                 }
          \inf(\text{flag} == 0)
          printf(" %d", arr[i]);
   }
7. Take two array and add sum in third array
//Take two array and add sum in third array
int main()
   int arr[5]= \{1,2,3,4,5\};
  int brr[5]={10,20,30, 40, 50};
  sum(arr, brr);
void sum(int*arr, int*brr){
   int crr[5];
   printf("crr[5]= {");
```

```
int i;
   for(i=0; i<5; i++){
          int j;
          for(j=0; j<5; j++){
                 if(i==j){
                        crr[5] = arr[i] + brr[j];
          printf(" %d,", crr[5]);
   printf("\b}");
8. Merge two arrays
// Merge two arrays
int main()
   int arr[5] = \{3, 4, 7, 8, 1\};
   int brr[5] = \{5, 6, 9, 2, 3\};
   merge(arr, brr);
void merge(int*arr, int*brr){
   int i,crr[10];
   printf("crr[10] = {"});
   for(i=0; i<5; i++){
          crr[i] = arr[i];
   int j;
   for(j=0; j<5; j++){
          crr[j+5] = brr[j];
   int k;
   for(k=0; k<10; k++){
          printf("%d,", crr[k]);
   printf("\b}");
9. Reverse the given array.
//Reverse the given array.
int main()
```

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int arr[5] = \{2, 5, 7, 8, 4\};
   reverse(arr);
}
void reverse(int*arr)
   printf("rev[5] = {");
   int i;
   for(i=4;i>-1;i--){
          printf("%d,",arr[i]);
   }printf("\b}");
}
10.Sort the array.
//Sort the array.
int main()
{
   int arr[5] = \{3, 6, 8, 2, 5\};
   sort(arr);
void sort(int*arr){
   int i, temp;
   for(i=0; i<4; i++){
          int j;
          for(j=0; j<4; j++){}
                 if(arr[j]>arr[j+1]){
                        temp = arr[j];
                        arr[j] = arr[j+1];
                        arr[j+1] = temp;
                 }
          }
   for(i=0; i<5; i++){
          printf(" %d", arr[i]);
}
```