

## Assignment 14

① #include <stdio.h>

int main()

{

int a[10], i, sum=0;

printf("Enter 10 numbers in an array\n");

for(i=0; i<10; i++)

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

for(i=0; i<10; i++)

sum = sum + a[i];

printf("Sum of 10 numbers is %d", sum);

return 0;

}

② #include <stdio.h>

int main()

{

int a[10], i, sum=0;

float Average;

printf("Enter 10 numbers in an array\n");

for(i=0; i<10; i++)

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

for(i=0; i<10; i++)

sum = sum + a[i];

Average =  $\frac{\text{sum}}{10.0}$ ;

printf("Average of 10 numbers is %.f", Average);



③ #include <stdio.h>

int main()

{

int a[10], i, sumEven=0, sumOdd=0;

printf("Enter 10 values in an array\n");

for(i=0; i<10; i++)

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

for(i=0; i<10; i++)

{

if(a[i]%2)

sumOdd = sumOdd + a[i];

else

sumEven = sumEven + a[i];

}

printf("Sum of Even numbers in an array is %d\n", sumEven);

printf("Sum of Odd numbers in an array is %d\n", sumOdd);

return 0;

}

④ #include <stdio.h>

int main()

{

int a[10], i, d;

printf("Enter 10 numbers in an array\n");

scanf("%d", &a[0]);

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

d = a[0];

for(i=1; i<10; i++)

{

if(d < a[i])

d = a[i];

}

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printf("Largest among all is %d", d);



```

5) #include <stdio.h>
    int main()
    {
        int a[10], i, d;
        printf("Enter 10 numbers\n");
        for(i=0; i<10; i++)
            scanf("%d", &a[i]);
        d = a[0];
        for(i=0; i<10; i++)
        {
            if(d >= a[i])
                d = a[i];
        }
        printf("Smallest Number among array is %d\n", d);
        return 0;
    }

```

```

6) #include <stdio.h>
    int main()
    {
        int a[10], i, temp, count;
        printf("Enter 10 numbers\n");
        for(i=0; i<10; i++)
            scanf("%d", &a[i]);
        for(k=1; k<10; k++)
        {
            count = 0;
            for(i=0; i<10; i++)
            {
                if(a[i] >= a[i+1])
                {
                    temp = a[i];

```



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a[i] = a[i+1];  
a[i+1] = temp;  
count = 1;

}

}

if (count == 0)  
break;

}

~~return~~ printf("Array after sorting: \n");  
for (i = 0; i < 10; i++)  
printf("%d", a[i]);

return 0;

}

⑦ #include <stdio.h>

int main()

{

int n, i, k, count, temp;

printf("Enter size of an array \n");

scanf("%d", &n);

int a[n];

printf("%d \n", n);

printf("Enter %d numbers \n", n);

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

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

~~for (i = 0; i < n; i++)~~ printf("%d numbers are here \n", n);



```

for(i=0; i<n; i++)
    printf("%d", a[i]);
printf("\n");
for(k=1; k<n; k++)
{
    count=0;
    for(i=0; i<(n-1); i++)
    {
        if(a[i] >= a[i+1])
        {
            temp = a[i];
            a[i] = a[i+1];
            a[i+1] = temp;
            count++;
        }
    }
    if(count == 0)
        break;
}
printf("Second largest number among them is %d", a[n-2]);
return 0;
}

```



⑧

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

```
int main()
```

```
{
```

```
int n, i, k, count, temp;
```

```
printf("Enter size of an array\n");
```

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

```
int a[n];
```

```
printf("Enter %d numbers\n", n);
```

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

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

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

```
printf("%d ", a[i]);
```

```
printf("\n");
```

```
for(k=1; k<n; k++)
```

```
{
```

```
count=0;
```

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

```
{
```

```
if(a[i] > a[i+1])
```

```
{
```

```
temp = a[i];
```

```
a[i] = a[i+1];
```

```
a[i+1] = temp;
```

```
count=1;
```

```
}
```

```
}
```

```
if(count == 0)
```

```
break;
```

```
}
```

```
printf("Second smallest number among them is %d", a[1]);
```

```
return 0;
```

GOOD WRITE



```
9) #include <stdio.h>
int main()
{
    int n, i;
    printf("Enter size of an array\n");
    scanf("%d", &n);
    printf("%d\n", n);
    for(i=0; i<n; i++) int a[n];
    for(i=0; i<n; i++)
        scanf("%d", &a[i]);
    for(i=0; i<n; i++)
        printf("%d", a[i]);
    printf("\n");
    printf("Array in reversed order\n");
    for(i=(n-1); i>=0; i--)
        printf("%d", a[i]);
    return 0;
}
```

```
10) #include <stdio.h>
int main()
{
    int n, i;
    printf("Enter size of an array\n");
    scanf("%d", &n);
    printf("%d\n", n);
    int a[n], b[n];
    for(i=0; i<n; i++)
        scanf("%d", &a[i]);
    for(i=0; i<n; i++)
        b[i] = a[i];
}
```



```
printf("Array 'a' is : \n");
for(i=0; i<n; i++)
    printf("%d ", a[i]);
printf("\n Array 'a' is copied to Array 'b' \n");
for(i=0; i<n; i++)
    printf("%d ", b[i]);
return 0;
```

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