

Assignment-14

1- #include <stdio.h>
 int main() {
 int a[10], i, s = 0;
 printf("Enter 10 numbers\n");
 for (i = 0; i <= 9; i++) {
 scanf("%d", &a[i]);
 s = s + a[i];
 }
 }

2- #include <stdio.h>
 int main()

int a[10], i, s = 0;
 float avg = 0;
 printf("Enter 10 Numbers\n");
 for (i = 0; i <= 9; i++) {
 scanf("%d", &a[i]);
 s = s + a[i];
 }

avg = s / 10.0;
 printf("Average is %.f", avg);

3- #include<stdio.h>

int main()

{

int a[10], i, even=0, odd=0;

printf("Enter 10 numbers\n");

for(i=0; i<=9; i++)

{

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

if(a[i]%2==0)

even = even + a[i];

else

odd = odd + a[i];

}

printf("Sum of even Number is %d\n", even);

printf("Sum of odd Number is %d\n", odd);

4- #include<stdio.h>

int main()

{

int a[10], gvt=0; // gvt = greatest

printf("Enter 10 Numbers\n");

for(i=0; i<=9; i++)

{

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

if(a[i]>=gvt)

gvt = a[i];

}

printf("Greatest Number is %d", gvt);

3.

5. #include <stdio.h>

int main()

{

int a[10], i, small;

printf("Enter 10 Numbers\n");

for (i = 0; i <= 9; i++)

{

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

if (a[i] <= small)

small = small + a[i];

}

printf("Smallest Number is %d", small);

3.

9. #include <stdio.h>

int main()

{

int a[10], i, j, m;

printf("Enter array size\n");

scanf("%d", &m);

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

{

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

for (j = m - 1; j >= 0; j--)

{

printf("%d\t", a[j]);

}

10- #include <stdio.h>

int main()

{

int i, j, K, n

printf("Enter array size\n");

scanf("%d", &n);

int a[n], b[n];

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

{

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

}

for (j=0, k=0; j<=n-1, k<=n-1; j++, k++)

{

b[k] = a[j];

}

printf("First Array is \n");

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

{

printf("%d\t", a[j]);

}

printf("\n");

printf("Second Array is \n");

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

{

printf("%d\t", b[k]);

}

9

```

6- #include <stdio.h>
int main()
{
    int a[10], i, j, temp;
    printf("Enter 10 numbers\n");
    for (i = 0; i < 9; i++)
    {
        scanf("%d", &a[i]);
    }
    for (i = 0; i < 9; i++)
    {
        for (j = i + 1; j < 10; j++)
        {
            if (a[i] > a[j])
            {
                temp = a[i];
                a[i] = a[j];
                a[j] = temp;
            }
        }
    }
    for (i = 0; i < 9; i++)
    {
        printf("%d ", a[i]);
    }
}

7. // for Second Largest element in Question 6 add the below code
   at the end.
   printf("\n");
   printf("Second Largest element is %d", a[8]);

```

8-

// for Second Smallest in arr. 6
`printf("\n");`
`printf("Second smallest element is %.d", a[1]);`

`if (C1 > A & C1 < B) ans2`

`if (A < B & B > i) ans2`

`if (A < B & B > i + 1) ans2`

`if (B < C & C > i + 1) ans2`

`C1 = ans2`

`C2 = C1`

`ans3 = C2`

`(ans1 - ans2) / 2`

`(C1 > B & B < D) ans2`

for ans3 with the elements of the array sorted in ascending order

ans3 will be

`(C1 < A & A < D) ans2`

`(C1 > A & A < D) ans2`