

## **ASSIGNMENT**

- 1. Write a function to calculate sum and product into a single function (using pointer).
  - a. Using global variables (for result)
  - b. Without using global variables
- 2. Write a function to swap two numbers (using pointer)
- 3. Classwork on Arrays

## **TWISTERS**

```
1. int main(void)
{
    int a = 10;
    int *ptr = &a;
    printf(" %d %d ", a,++*ptr);
    printf(" %d %d ", a,*ptr++);
    return 0;
}
A. 11 11 11 11
B. 11 11 12 12
C. Compile time error
```

**Answer: A** 

D. Run time error



```
2. #include<stdio.h>
int print_size(int a[])
     printf("%d, %d, ", sizeof(a) , sizeof( a[3] ) );
     return 0;
}
int main(void)
{
     int a[] = {1,2,3};
     printf("%d, %d, ",sizeof(a), sizeof(a[-1]));
     print_size(a);
}
A. compile time error
B. 12, 4, 12, 4
C. 12,4,4,4
D. 12, 2, 12, 8
Answer: C
```



```
3. #include <stdio.h>
void callbyAddress1(int *x)
     x=x+10;
}
void callbyAddress2(int *x)
     *x=*x+10;
int main(void)
     int a=10;
     printf(" %d ",a);
     callbyAddress1(&a);
     printf(" %d ",a);
     callbyAddress2(&a);
     printf(" %d ",a);
     callbyAddress1(&a);
     printf(" %d ",a);
     callbyAddress2(&a);
     printf(" %d ",a);
     return 0;
}
A. 10 10 20 20 30
B. 10 10 10 10 10
C. 10 20 30 40 50
D. compile time error
```

**Answer: A** 



```
4. #include<stdio.h>
int main( void )
     const int a = 4;
     int * const ptr = &a;
     *ptr = update(a);
     printf("a = %d ptr = %d ", a,--*ptr);
     printf("a = %d ptr = %d ", a,++*ptr);
     printf("a = %d ptr = %d ", a,--*ptr);
     return 0;
}
int update(int a)
{
     int value=(a+a*a+a);
     return value;
A. a = 23 ptr = 23 a=24 ptr =24 a=23 ptr =23
B. a = 63 ptr = 63 a = 64 ptr = 64 a = 63 ptr = 63
C. a = 24 ptr = 24 a = 25 ptr = 25 a = 24 ptr = 24
D. a = 64 ptr = 64 a = 65 ptr = 65 a = 64 ptr = 64
E. Compile time error
```

**Answer: A**