ASSIGNMENT

1. Write a program to accept marks of five subjects, calculate its total and average. (Using 1-D array)

2. Write a function to reverse the array elements.

3. Write a function to calculate maximum and minimum of the array elements.

TWISTERS

1. #include<stdio.h>
int main(void)
{
int a[5] = {5,4,3,2,1};
int *ptr = (int*)(&a+3-2);
printf("%d %d", *(a+1), *(ptr-1));
return 0;
}
A. 4 1
B. 2 1
C. 5 4
D. 1 1

Answer: A

2. #include<stdio.h>
int main(void)
{
	void *ptr_name=NULL;
	char ch=115, *name="sunbeam";
	int j=117;
	ptr_name=&ch;
	printf("%c", *(char*)ptr_name);
	ptr_name=&j;
	printf("%c", *(int*)ptr_name);
	ptr_name=name;
	printf("%s", (char*)ptr_name+2);
	return 0;
}
A. sunbeam
B. s117nbeam
C. 115unbeam
D. 115117unbeam

Answer: A

3. #include<stdio.h>

```
void changeVal(short int *x)
{
        int i;
        for(i=0;i<sizeof(x);i++,x++)
        {
                *x+=2;
        }
         return ;
}

int main( void )
{
        short int arr[]={1,2,3,4,5,6,7};
        changeVal(arr);
        printf("%d %d %d",arr[1],arr[3],arr[5]);
        return 0;
}
```

Note: conside 32 bit compiler setting

A. 4 6 8
B. 4 6 6
C. 4 4 4
D. Compiler error
E. 6 6 6

Answer: B

4. #include<stdio.h>

```
int sunbeam(int **q)
{
        int a =/*$$$*/;
        return a;
}

int main( void )
{
        int a = 3;
        int *p = &a;
        a = sunbeam(&p);
        printf("%d",  a);
        return 0;
}
```

Note : : /*What code should be at $$$ to print 9? */

A. a * a
B. *p * *p
C. *q * *q
D. Compiler error
E. **q * **q

Answer: E