ASSIGNMENT

1. Write a function to implement four function calculator. Function would take operands and operator as arguments and returns result. In above program, division may fail if denominator is zero. Use global variable as an error flag to avoid this problem.

TWISTERS

1. #include <stdio.h>

```
int ext = 30;

int main(void)
{
        extern int ext;
        printf("Ext = %d ", ext);
        extfun();
        return 0;
}

int ext = 10;

int extfun(void)
{
        int ext = 20;
        printf("%d\n",ext);
}
```

A. Ext = 10 20
B. Ext = 30 20
C. Compile time error
D. Run time error

Answer: C

2. #include <stdio.h>

```
static char char1 = 'A';
extern char char2 = 'B';
register char char3 = 'C';

void mystorage(void)
{
        printf("%c %c %c\n", char1, char2, char3);
}

int main(void)
{
        printf("%c %c %c\n", char1, char2, char3);
        mystorage();
        return 0;
}
```

A. A B C
   A B C

B. Compile time error -
   static variable cannot be declared globally

C. Compile time error -
   extern variable cannot be declared globally

D. Compile time error -
   register variable cannot be declared globally

Answer: D

3. #include <stdio.h>

```
int demo(char p1, char p2)
{
        char p3;
        p3 = ~p1 + ~p2;
        return p3;
}

int main(void)
{
        char p1 = 255, p2 = 256;
        char p3 = demo(~p1++, ~p2--);
        printf("%d %d %d\n", p1, p2, p3);
        return 0;
}
```

A. -1 -1 0

B. -1 0 -1

C. 0 -1 -1

D. None of the above

Answer: C

4.

```
#include <stdio.h>
int i = 0;

int main(void)
{
	auto int i = 1;
	printf("%d ", i);
	{
		int i = 2;
		printf("%d ", i);
		{
			i += 1;
			printf("%d ", i);
		}
		printf("%d", i);
	}
	printf("%d", i);
	return 0;
}
```

A. 0 1 2 2 0
B. 1 2 3 2 1
C. 1 2 3 3 1
D. 0 1 2 1 0

Answer: C

5. #include <stdio.h>

```
int my = 0;

int myset(int my)
{
        printf("%d ", my++);
        return my = my <= 2 ? 5 : 0;
}
int main(void)
{
        int my = 5;
        myset( my/2 );
                printf("%d ", my);
        myset( my=my/2 );
                printf("%d ", my);
        my = myset( my/2 );
                printf("%d ", my);
        return 0;
}
```

A. 3 5 3 2 2 5
B. 2 5 2 2 1 5
C. 2 3 2 2 2 5
D. 3 3 3 2 1 5

Answer: B