

```

*****Program 28.c *****
#include<stdio.h>
int main() {
    int x, y, z, i;
    int fv;
    scanf("%d%d%d",&x,&y,&z);

    fv = 1;
    for (i = 1; i <= x; i++) {
        fv = fv * i;
    }
    printf("fact of %d is %d\n",x,fv);

    fv = 1;
    for (i = 1; i <= y; i++) {
        fv = fv * i;
    }
    printf("fact of %d is %d\n",y,fv);

    fv = 1;
    for (i = 1; i <= z; i++) {
        fv = fv * i;
    }
    printf("fact of %d is %d\n",z,fv);
}
*****Program 28.1.c *****
#include<stdio.h>

int fact(int); //function prototype

int main() {
    int x, y, z, i;
    int fv;
    scanf("%d%d%d",&x,&y,&z);

    fv = fact(x);
    printf("factorial of %d is %d\n",x,fv);

    fv = fact(y);
    printf("factorial of %d is %d\n",y,fv);

    fv = fact(z);
    printf("factorial of %d is %d\n",z,fv);
}

int fact(int n) {
    int rv = 1, i;
    for (i = 1; i <= n; i++) {
        rv = rv * i;
    }
    return rv;
}
*****Program 28.2.c *****
#include<stdio.h>

void fact(int); //fucntion prototype

int main() {
    int x, y, z, i;
    int fv;
    scanf("%d%d%d",&x,&y,&z);

```

```

    fact(x);
    fact(y);
    fact(z);
}

void fact(int n) {
    int rv = 1, i;
    for (i = 1; i <= n; i++) {
        rv = rv * i;
    }
    printf("factorial of %d is %d\n",n,rv);
    return ;
}

*****Program 30.c *****
#include<stdio.h>
int findmax(int, int, int);
int main() {
    int x, y, z;
    scanf("%d%d%d", &x, &y, &z);
    printf("max is %d\n", findmax(x,y,z));
}

int findmax(int a, int b, int c) {
    int m;
    m = a;
    if (m < b) {
        m = b;
    }
    if (m < c) {
        m = c;
    }
}

*****Program 29.1.c *****
#include<stdio.h>
void myprint(int);

int main() {
    int x = 10;
    myprint(x);
    printf("value is %d\n",x);
    myprint(x);
}

void myprint(int x) { //x is a local variable
    printf("value is %d\n", x);
    x = 2;
}

*****Program 31.c *****
#include<stdio.h>
//print address
int main() {
    int a[] = {10, 20, 30, 40};
    int i;

    //print base address...
    printf("%p %p %p\n", a, &a, &a[0]);

    for (i = 0; i < 4; i++) {
        printf("%p\n", &a[i]);
    }
}

```

*****Program 32.c *****

```
#include<stdio.h>
//passing array
void printarray(int [], int);
int main() {
    int a[] = {-1, 2, 30, 40};
    printarray(a, 4);
    printarray(&a[0], 4);
}

void printarray(int b[], int n){
    int i;
    for (i = 0; i < n;i++) {
        printf("%d ", b[i]);
    }
    printf("\n");
}
```

*****Program 33.c *****

```
#include<stdio.h>
//demonstrate call-by-reference...
void printarray(int [], int);
void trytomodify(int b[], int n);
int main() {
    int a[] = {-1, 2, 30, 40};
    printarray(a, 4);
    trytomodify(a, 4);
    printarray(a, 4);
}

void printarray(int b[], int n){
    int i;
    for (i = 0; i < n;i++) {
        printf("%d ", b[i]);
    }
    printf("\n");
}

void trytomodify(int b[], int n) {
    int i;
    for (i = 0; i < n;i++) {
        b[i] = b[i] + 10;
    }
}
```