

ID:021202076

Labsheet-1

1.

a)

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int main()
```

```
{
```

```
    printf("Welcome to EEE");
```

```
    return 0;
```

```
}
```

b)

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int main()
```

```
{
```

```
    printf("Welcome\nto\nEEE");
```

```
    return 0;
```

```
}
```

c)

After omitting semicolons:

```
||=== Build: Debug in Labsheet_1_1 (compiler: GNU GCC Compiler) ===|
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\Labsheet_1_1\main.c||In function 'main':|
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\Labsheet_1_1\main.c|6|error: expected ';' before
'return'|
||=== Build failed: 1 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===|
```

After omitting brackets:

```
||=== Build: Debug in Labsheet_1_1 (compiler: GNU GCC Compiler) ===|
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\Labsheet_1_1\main.c||In function 'main':|
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\Labsheet_1_1\main.c|6|warning: statement with
no effect [-Wunused-value]|
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\Labsheet_1_1\main.c|6|error: expected ';' before
string constant|
||=== Build failed: 1 error(s), 1 warning(s) (0 minute(s), 0 second(s)) ===|
```

After omitting inverted comma:

```
||=== Build: Debug in Labsheet_1_1 (compiler: GNU GCC Compiler) ===|
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\Labsheet_1_1\main.c||In function 'main':|
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\Labsheet_1_1\main.c|6|error: 'Welcome'
undeclared (first use in this function)|
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\Labsheet_1_1\main.c|6|note: each undeclared
identifier is reported only once for each function it appears in|
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\Labsheet_1_1\main.c|6|error: expected ')' before
'to'|
||=== Build failed: 2 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===|
```

After correct them:

```
||=== Build file: "no target" in "no project" (compiler: unknown) ===|  
||=== Build finished: 0 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===|
```

d)

After replace **main** with **Main**. This message is showing:

```
||=== Build file: "no target" in "no project" (compiler: unknown) ===|  
  
C:\Program Files\CodeBlocks\MinGW\bin\..\lib\gcc\x86_64-w64-  
mingw32\8.1.0\..\..\x86_64-w64-mingw32\lib\..\lib\libmingw32.a(lib64_libmingw32_a-  
crt0_c.o):crt0_c.c:(.text.startup+0x2e)||undefined reference to `WinMain'|  
  
||error: ld returned 1 exit status|  
  
||=== Build failed: 2 error(s), 0 warning(s) (0 minute(s), 0 second(s)) ===|
```

After replace **printf()** with **print()** . This message is showing:

```
||=== Build file: "no target" in "no project" (compiler: unknown) ===|  
  
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\labsheet_1_1\main.c||In function 'main':|  
  
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\labsheet_1_1\main.c|6|warning: implicit  
declaration of function 'print'; did you mean 'printf'? [-Wimplicit-function-declaration]|  
  
H:\UIU\4th Trimester\EEE 2402\LabSheet\1\labsheet_1_1\main.o:main.c|| undefined  
reference to `print'|  
  
||error: ld returned 1 exit status|  
  
||=== Build failed: 2 error(s), 1 warning(s) (0 minute(s), 0 second(s)) ===|
```

2.

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int main()
```

```
{
```

```
    float h,b, area;
```

```

printf("\tFind triangle Area\t\n");
printf ("\nPlease enter the base of a triangle: ");
scanf("%f", &b);
printf ("\nPlease enter the height of a triangle: ");
scanf("%f", &h);
area= (b*h)/2;
printf("\n\nThe area of the triangle is= %.2f ",area);

return 0;
}

```

3.

```

#include <stdio.h>
#include <stdlib.h>

int main()
{
    float r,area,perimeter;
    const double PI = 3.1416;
    printf("\tCalculate the area and perimeter of the circle\n");
    printf("\nPlease enter the radius of the circle: ");
    scanf("%f",&r);
    area=PI*r*r;
    perimeter=2*PI*r;
    printf ("\n\nThe area is = %.2f  and perimeter is = %.2f ", area, perimeter);

    return 0;
}

```

4.

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int main()
```

```
{  int a,b, temp;
```

```
    printf("\t Swaping two integers\n");
```

```
    printf("\nPlease enter 1st value: ");
```

```
    scanf ("%d",&a);
```

```
    printf("\nPlease enter 2nd value: ");
```

```
    scanf ("%d",&b);
```

```
    b=temp;
```

```
    b=a;
```

```
    a=b;
```

```
    printf("\nAfter swapping value of a=%d and b=%d", a,b);
```

```
    return 0;
```

```
}
```

5.

```
#include <stdio.h>
```

```
#include <stdlib.h>
```

```
int main()
```

```
{
```

```
    int a, b;
```

```
    printf("Please enter 1st value: ");
```

```
    scanf ("%d", &a);
```

```
printf("\nPlease enter 2nd value: ");  
scanf("%d",&b);  
a = a+b;  
b= a-b;  
a= a-b;  
  
printf ("After swapping a = %d and b= %d", a,b);  
return 0;  
}
```