Loop/Repetition Statements Lecture 4 Assignments

1. What is the output of the following program?

```
finclude <stdio.h>
int main(void)

int i;
i = 1;
i = 128) {
  printf("%d", i);
i *= 2;
}

return 0;
}

1 2 4 8 16 32 64 128

Process returned 0 (0x0) execution time: 0.052 s

Press any key to continue.
```

2. Which one of the following statements is not equivalent to the other two (assuming that the loop bodies are the same)?

3. Convert item 1 into an equivalent for statement.

```
■ "C\Users\Toshiba\OneOrive\Documents\first project\as3(loops).exe"

1 2 4 8 16 32 64 128

Process returned 0 (0x0) execution time: 0.054 s

Press any key to continue.
```

4. Write a code that computes for the power of two:

```
#include<stdio.h>

#int main() {

long int p;
int n;

printf("\n----");

printf("\n---");

printf("\n---");

printf("\n---");

printf("\n---");

printf("\n---");

printf("\n---");

else
    p = p * 2;
    printf("\n*2d *&d", n, p);

2d    printf("\n*2d *&d", n, p);

printf("\n
```

5. Write a program that displays a one-month calendar.

```
#include<stdio.h>
#int main(){

int i,num_of_days;
int first;

printf("Enter number of days in a month: ");
scanf("%d",snum_of_days);

if (num_of_days <= 27){

printf("Invalid input.");
}

else if (num_of_days >= 32){

printf("Invalid input.");
}

printf("Invalid input.");
}

else if (num_of_days >= 32){

printf("Invalid input.");
}

for (i = 1; i < first; i++)

printf("");

for (i = 1; i < first; i++)

printf("");

for (i = 1; i < num_of_days; i++){

printf("%ad", i);

if ((first + i-1) % 7 == 0)

printf("%ad", num_of_days; i++)

printf("\n");
}

return 0;
}

return 0;
}

**The column of days in a month: 30

enter number of days in a month: 30

enter number of days in a month: 30

enter first day in a month: 30

enter
```