

**Task1:** Point out the Syntax and Semantic errors in the code snippet, and debug

1. Point out the Semantic errors in the code snippet

```
#include <stdio.h> int
main()
{
    a =
10;
printf("The value of a is : %d", a); return
0;
}
```

- Point out the Syntax errors in the code snippet:

```
#include <stdio.h> int
main()
{
    int
a=2;
if(.)
printf("a is greater than 1"); return
0;
}
```

2. Point out the Syntax errors in the code snippet

```
#include <stdio.h> int
main()
{
    int a=2; int b=2/0; printf("The
value of b is : %d", b); return 0;
}
```

3. Find the output of the code

```
int main() { int x=1,y=5; printf("%d",++(x+y)); return 0; }
```

Find the output of the code

```
int main() { int
a=2,b=3,c=3;
a=b==c;
printf("a=%d",a);
return 0; }
```

6. Find the output of the code

```
int main()
{
    int i=9;
    for(i--;i-- ;i-- );
    printf("%d",i);
    return 0;
}
```

6. Find the output of the code

```
int main()
{
    int i;
    for(i=5;++i;i+=3)
    printf("%d",i);
    return 0;
}
```

## Outputs

The value of a is 10

Variable a is used without declaration if  $a=10$ ,  
a is greater than 1

If  $(a>1)$  then output is "a greater than 1" if (...) is invalid.

The value of b is 12.

Division by zero ( $12/0$ ) undefined.

error: invalid  $++(x+y)$

Output is 7

$$2 = x + y \\ \text{if } 2 \text{ then}$$

$$a = 1$$

Explanation  $b == c$  means  $3 == 3$ .

No error

Output is -1

error: i - + 3 is invalid syntax  
if  $i+=3$

Output is 6 10 14 18 22.

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Result :-

Thus, the program verified and executed successfully.