

Question (1)

Give a **1-sentence definition** of the term “compiler”.

Question (2)

True or False (*no explanation required*): in C, all declarations and statements must end with a “:”

Question (3)

True or False (*no explanation required*): “**int_variable**” is a valid identifier in C.

Question (4)

If **x==3**, **y==4**, and **z==5**, what is the value of **w** in the expression **w = x + y * z** ?

Question (5)

What is the screen output of the following fragment of C code (*no explanation required*):

```
float x=3.14159;
printf("value is %.4f\n",x);
```

Question (6)

What is the screen output of the following fragment of C code (*no explanation required*):

```
int i=-1,j=0;
if (j<0){
    printf("yes\n");
} else if (i>=j){
    printf("no\n");
} else {
    printf("maybe\n");
}
```

Question (7)

What is the screen output of the following fragment of C code (*no explanation required*):

```
int a=4, b=2, c=-1;
if ((a>=b)&& c){
    printf("condition is true\n");
} else {
    printf("condition is false\n");
}
```

Question (8)

What is the screen output of the following fragment of C code (*no explanation required*):

```
int i=100;
while (i>0){
    i = i/5;
    printf("i is %d\n",i);
}
```

Question (9)

What is the screen output of the following fragment of C code (*no explanation required*):

```
int i;
for (i=0;i<=4;i++){
    switch(i){
        case 1:
        case 2: printf("1 or 2\n");
        case 3: printf("3\n");
                break;
        default: printf("default\n");
                break;
    }
}
```

Question (10)

State the 3 types of errors that could be found in a C program (*no explanation required*).