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| **Week 6 Task** | **Title: Functions** |
| **Name and Student ID** |  |

**Tutorial Task(s)**

1. Explain why function prototype is required?
2. Mention the reason why scope is important?
3. If the global variables can be used anywhere in the program, why not make all global variables global?
4. State the advantage of using register storage class? What are the functions with register storage class?
5. What is a linkage?
6. Explain the linkage intend? State the different types of linkages?
7. Differentiate between internal static and external static variable?
8. What does extern mean in a function declaration?
9. Compare recursion and iteration?
10. Can main() called recursively?
11. Explain the keywords: a) Actual parameters b) formal parameters c) space complexity d) time complexity e) storage class specifiers
12. What will be the output of the below program?

int a =10;

void compute( int a)

{

a =a;

}

int main ()

{

int a =100;

printf(“%d”, a);

compute(a);

printd(“%d”,a);

return 0;

}

Practice!!

Write a menu-based program in C that uses the set of functions to perform the following operations

1. Reading a complex number
2. Writing a complex number
3. Addition of two complex number
4. Subtraction of two complex number
5. Multiplication of complex number