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| **BCA Semester-VI**  **Assignment-1**  **Basic Kotlin Programs**  **Date: 22/12/2021** | |
| 1. | Write a program to display “Hello World” message.  **fun main()**  **{**  **println("hello world")**  **}** |
| 2. | Write a program to display your full name, address and mobile number.  **fun main()**  **{**  **println("priyank vadgama")**  **println("b-1 shastri society ,piplag")**  **println("9265498492")**  **}** |
| 3. | Write a program to demonstrate the use of var and val keywords of Kotlin.  **fun main()**  **{**  **var a=1**  **val b=2**  **println("$a and $b")**  **}** |
| 4. | Write a program to take to declare two integer types of variables and display sum of them.  **fun main()**  **{**  **var a=40**  **var b=10**  **val c=a+b**  **println("sum is" +c)**  **}** |
| 5. | Write a program to demonstrate the use of string interpolation.  **fun main()**  **{**  **var a:Int=10**  **var b:Int=20**  **val c=a+b**  **println("sum of $a and $b is: ${a+b}")**  **}** |
| 6. | Write a program to demonstrate the usage of arithmetic operators.  **fun main()**  **{**  **var a:Int=10**  **var b:Int=20**  **var c=a+b**  **println("sum of $a and $b is: ${a+b}")**  **println("sub $a and $b is: ${a-b}")**  **println("multi $a and $b is: ${a\*b}")**  **println("div $a and $b is: ${a/b}")**  **println("modulo $a and $b is: ${a%b}")**  **}** |
| 7. | Write a program to demonstrate relational operators.  **fun main()**  **{**  **var a=10**  **var b=12**  **println (a>b)**  **println (a<b)**  **println (a==b)**  **println (a!=b)**  **}** |
| 8. | Write a program to demonstrate logical operators.  **fun main()**  **{**  **var academics=70**  **var knowsprogramming=true**  **if (academics>50 && knowsprogramming)**  **{**  **println("selected")**  **}**  **else**  **{**  **println("better luck next time")**  **}**  **}** |
| 9. | Write a program to take one integer variable and check weather value of variable fall under specified range or not. (use .. and until operators)  **fun main()**  **{**  **var a=50**  **var flag= a in 1..50**  **println(flag)**  **}**  *\\ using until*  **fun main()**  **{**  **var a=50**  **var flag= a in 1 until 50**  **println(flag)**  **}** |
| 10. | Write a program to take simple string from user and display the string entered by user in console. |
| 11. | Write a program to read integer inputs from user using Scanner class, perform some arithmetic operation on it and display the output to the console. |
| 12. | Write a program to demonstrate the usage of type conversion function available in Kotlin. |
| 13. | Write a program to find the area of a circle. |
| 14. | Write a program to find the area of a triangle. |
| 15. | Write a program to find the percentage of 5 subjects. |
| 16. | Write a program to find greatest number of two numbers. |
| 17. | Write a program to find greatest number of three numbers. |
| 18. | Write a program to check whether entered number is even or odd. |
| 19. | Write a program to check whether year entered by the user is leap year or not. |
| 20. | Write a program to check whether number entered by user is 100, less than 100 or greater than 100. |
| 21. | Check whether a number is negative, positive or zero. |
| 22. | Write a program to print 1 to 10 number using while loop. |
| 23. | Write a program to print 1 to 10 number using for loop. |
| 24. | Write a program to print even numbers between 1 to 10 using for loop. |
| 25. | Write a program to print off numbers between 1to 10 using for loop. |
| 26. | Write a program to print table of a number entered by user using for loop. |
| 27. | Write a program to check whether entered number by user is prime or not. |
| 28. | Display Fibonacci Series Using for loop. |
| 29. | Check Number Is Armstrong Or Not using While Loop. |
| 30. | Reverse the number using while loop. |