BITS PILANI, DUBAI CAMPUS DUBAI INTERNATIONAL ACADEMIC CITY, DUBAI

FIRST SEMESTER 2023 – 2024

COURSE: CSF301 (Principles of Programming Languages)

COMPONENT: Tutorial Sheet 3 **DATE:** 30 September 2023

What will be the output of following C programs?

1. Program 1

Answer: a != 3 and b = 1

2. Program 2

```
#include "stdio.h"
int main()
{
    int a = 10;
    switch(a)
    {
       case 10: printf("Ten");
       case 20: printf("Twenty");
       case 30: printf("Thirty");
       default: printf("nothing");
    }
```

```
return 0;
Answer: TenTwentyThirtynothing
3. Program 3
#include "stdio.h"
int main()
  int a=32;
  do
          printf("%d ", a);
           a++;
          if(a > 35)
                  break;
  } while(1);
  return 0;
Answer: 32 33 34 35
4. Program 4
#include <stdio.h>
int main() {
    int digit = 0;
   for(; digit <= 9; )
          digit++;
   digit *= 2;
   --digit;
   return 0;
}
Answer: 19
5. Program 5
  #include <stdio.h>
  int main()
     int i = 0;
     while (i < 2)
       if (i == 1)
         break;
         i++;
```

```
if (i == 1)
            continue;
            printf("In while loop\n");
    printf("After loop\n");
Answer: After loop
```