I st Week

Assignment - II

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1) Predict the output of the following

(i)
```
#include <stdio.h>
int main()
{
printf("%p", main);
getchar();
return 0;
}
```

o/p:- 0X400576
Address of fun^n main

→ Name of the function is actually a pointer variable to the functional & points the address of the function.

(ii)
```
#include <stdio.h>
int main()
{
  int i;
  i = 1, 2, 3;
printf("i = %d \n", i);
  getchar();
  return 0;
}
```

o/p:- i = 1

Associativity of Comma operator is from left to right, but = operator has higher precedence than comma operator.

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(iii)
```
#include <stdio.h>
#define prod (a,b) a*b
int main()
{
 int main()
 {
 int  x=3, y=4;
 Printf ("%d", Prod (x+2, y-1));
 return 0;
}
```

o/p — 10

$x+2*y-1 \Rightarrow x+(2*y)-1 =$
$\Rightarrow 3+(2*4)-1$
$= 3+8-1$
$= 10$ //

(iv)
```
#include <stdio.h>
#define a 10
 int main()
{
 #define a 50
 Printf ("%d", a);
 getchar ();
 return 0;
}
```

o/p-

Warning: "a" redefined
#define is the location of the previous definition
50

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v)
```
#include <stdio.h>
int main()
{
  int i = 20, j;
  i = (printf("Hello"), printf("All Geeks "));
  printf("%d", i);
  return 0;
}
```

o/p :=

Hello All Geeks 11

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