```
Predict the following output
    Hinchede Estatio. h)
    void funcint x)
     X = 30°,
    int main()
    int 4=20;
    fun(y);
    print (" x d", y).
    return o.
   output: 20
    Parameter one passed by value, so it does not change the value of y through jung
2. Hinclude (Stdio.h)
   void fun (int *ptr)
    *ptv = 30;
    int main ()
    int y = 20',
    fun(4y);
    print [ (" /.d", y);
     teturh o;
-> oulput: 30
    Call by reference.
    *ptr = 30 changes the is value of y
```

```
3. int main()
      int *ptr;
     ptr : 421;
      *ptr = 0;
      print; ("x = 7.dln", x); = 0
     print ( " *ptx = 7. dln", *ptx); = 0
     *ptr+= 5;
     print( (" x= 1.dln", x); 5
     print (" & *ptr = %dln", *ptr), 5
     print (" x = 1.dlh", x);
     print f ("*ptr = 1. dln", *ptr),6
     return o;
-> output // Explanation
    *ptr=0 // value of or
     X = 5 11 value of x i.e *ptr+=5;=0+5=5
    *ptr=5 // value at x
      x = 6 11 value of of ice after Aptr increments (6)
    *ptr = 6 11 value at x
4. Hinclude estelio. h)
    int main ()
    char SI[7] = "1234", xp;
    P- 31+2;
    xp = '0';
    print ("7.5", 51);
```

classmate
Date
5. Hinclude & Stolia h \ Explanation
vola f (int to int xa)
P=9:
*p=9. Palso points to j
H value change to 2 at
int i=0 j=1', //aHalizia
int main()
S Partition as a second
2(n; ns): //
\$ (4i, 45); // June call
print (""/d /d In", i, j); //prints 1=0, j=2
return o
3
Output: 02
6. Windudesstdie. h>
ind flint x :
int flint x, int *py, int *xpp2)
milesoni e
int y, 2°
** pp2+=1°,
2 = **pp2; = 5
*py += 2'
y = *py' = =
X + = 3°, = 7
7 churn x + y + 2;
Void maine)
9
int c, *b, *xa;
C = H;
b=+C;
a = 4b:
prints ("/d", f(c, 6, a)); return o;

->	output: 19
	It changes the value of 1 to 5 1.1. 2= **pz. y = *py = 70, x + = 3 = 7, x = 7, z = 5
	1 x01 = 70 x+=3= 7 x=7, y=7
	then it returns x+y+z',
	7+7+5
	219
	The state of the s
~	
+	#include (stdio.h)
	int main ()
	9.
	int arr[] = 21,2,3,4,53°,
	int *p = arr; *p=arr=1
	++*p; $++(*p)=1$
	p+=2°, p+=2=3
	printf (" Zd"; *p)",
	return o'
	, (14)
->	0/P: 3
	Explanation:
	++(*p) -> points to 1st element & then increme
	++(*p) -> points to 131 Element & then increme
	the by value i.e., 2
	P+=2 -> points to the base address of 3rd
	Element.
	* P holds the value of 3rd element
	THE RESERVE TO STATE OF THE PARTY OF THE PAR
8.	Hindude (Stdio. h) G A T E 2 0 11
	int maine) 1000 1004 1008 1092 1016 1020 1024 1028
	}
	char c[] = "GATE2011"; = 1000+4+4
	Char *p: (; = 1016
	printq("1.5", P+P[3]-P[1]);
->	OP : 2011
The state of the s	

	Page
	Explanation
	Explanation: GATE 2017 69-65 = 4 P[37 in F 257 0 - 1: 5 and 20 1 = 5
	TO STORE - PLAJEH - 4 LOSAL VALUE of BAH
	1000 100 P + 4 = 2011
9	int main() [K] O Y K S t Y e e t
	3 1000 1004 1008 1012 1016 1620 1924 1928 1832 1836
	char out 7 = "Workskeef";
	print[(" 1/5", P+P[1]-P[3]); P+P[]-P[3]
	return o; = P+4
	3 = 1000 + 4 * 4
	= 1016
	Olp: Street
	Explanation
	Explanation 0123456789 Workstruct
	It printe from base address of 4th element.
10.	ttinclude (stdio. h)
	int fun (char *str)
	ohar * str 2 = str);
	While C* ++StyD;
	return (stri-strz),
	1 6 mains 1
	int main()
	Char #str = "Worksbrut";
	print f("%d", fun (str));
	return o',
	3
	output: 10
	% of prints the integer value.