FAST

Date:

PF-LAB 03.

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Q1 Explain the output —— ?

The program displayes a statement and the value of testInteger as the output.
Since the value assigned to testInteger is larger than the storing range of int datatype, Integer overflow occurs and the value gets cut short by the compiler and stored as negative integer.

Q2. swap values — ?

```
#include <stdio.h>
int main(){
int a,b,c;
printf("Enter two numbers \n");
scanf("%d %d", &a, &b);
a=c;
b=a;
c=b;
printf("Numbers swapped. \n The first number is
        now %d \n The second number is %d,
        a, b);
return 0;
        }
```

Date:

Q3 Salary & tax ___?

```
#include <stdio.h>
int main (){
int taxpayable , taxrate , grosssalary , netsalary;
printf (" Enter salary and tax rate \n");
scanf (" %od , %od " , &grosssalary, &taxrate );
taxpayable = grosssalary (taxrate/100);
netsalary = grosssalary - taxpayable;
printf ("The tax that need to be paid is %od \n
        The salary after tax is %d" , taxpayable,
        netsalary );
                }
```

~~Q4 A car ___?~~

main.c

Share Run

```c
//QUESTION 4

#include <stdio.h>
int main() {
int caravg, distance = 1207 , fwd_price = 118,bwd_price = 123 ,
    fuel_spent,  total_cost ;
   printf ("Enter the car average \n ");
   scanf(" %d ", &caravg );
   if(caravg<=0){printf("Invalid input");}
   else{fuel_spent=caravg*distance ;
   total_cost=fuel_spent*(fwd_price+bwd_price );
   printf("The total fuel spent is: %d \n The total cost is: %d"
       ,fuel_spent , total_cost );
   }
}W
```

Q5. flow chart ___?

```
#include <stdio.h>
int main(){
int P, R, T, SI;
printf("Enter principal, Rate of interest and timeperiod\n
Note: Principal value must be >Rs100 and <Rs1,000,000
\n Rate of Interest must be >5% and <10%, \n
Timeperiod must be >1year and <10 years");
scanf("%d %d %d", &P, &R, &T);
SI= P*R*(T/100);
printf("The Simple interest is: %d", SI);
                }
```

Q6 Slope — ?

```
#include <stdio.h>
int main(){
 int x1=5 , y1=4 , x2=3 , y2=2 ;
 float slope;
 slope = (x2-x1)/(y2-y1);
printf("The slope of given points is : %.3f"
       , slope) ;

}
```