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Subject programming
fundamentals

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QNO1:-

Problem Solution

- ① Firstly initialized the ATM pin and amount with some Random numbers.
- ② Take the ATM pin as input.
- ③ If the input pin is equal to the initialized pin, then do the further operations.
- ④ use switch statement to do the operation like Balance checking, withdrawal, cash deposition etc.
- ⑤ use do-while loop to terminate or restart the process.

* Program:-

/*

* C program to display the ATM Transaction

*/

#include <stdio.h>

unsigned long amount = 1500,

deposit, withdrawal;

int choice, pin, k;

char transaction = 'y';

(3)

Date:

break;

case 2:

printf("\n Enter the amount to withdraw:");

scanf("%1u", &withdraw);

if (withdraw % 100 != 0)

{

printf("\n Please enter the amount in multiples of 100");

}

else if (withdraw > (amount - 500))

{

printf("\n INSUFFICIENT BALANCE");

}

else

{

amount = amount - withdraw;

~~printf("\n Enter the amount to deposit");~~

~~scanf("%1u", &deposit);~~

~~printf("your BALANCE is %1u", amount);~~

printf("\n\n PLEASE COLLECT CASH");

printf("\n\n your current BALANCE is %1u", amount);

}

break;

(4)

Date:

CASE 3;

```
printf("In Enter the amount to Deposit");
scanf("%1u", & deposit);
amount = amount + deposit;
printf("Your Balance is %1u", amount);
break;
```

CASE 4

```
printf("In Thank u using ATM");
break;
default:
printf("In invalid choice");
```

}

```
printf("\n\n Do u wish to have another Transaction? (Y/N): \n");
```

```
fflush(stdin);
```

```
scanf("%c", & transaction);
```

```
if (transaction == 'n' || transaction == 'N')
```

```
    k = 1;
```

```
    } while (!k);
```

```
printf("\n\n Thanks For using our ATM service");
```

```
}
```

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Date:

RUN Time cases

Enter your secret pin number: 1520

***** Welcome to ATM service *****

1. Check Balance
2. Cash withdraw
3. Cash Deposit
4. Quit

***** * * * * ? * * * * * * * * * * ? *

Enter your choice: 1

Your Balance in RS: 1000

Do you wish to have another Transaction?
(Y/n):

***** welcome to ATM service *****

- ①, 1. Check Balance
- ②, cash withdraw
- ③, cash Deposit
- 4, Quit

***** * * * * ? * * * * * * * * * * ? *

Enter your choice: 2

Enter the amount to withdraw: 200

Please collect cash

Your current Balance is 800

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Date:

Do you wish to have another Transaction?
(Y/N):

***** Welcome to ATM service *****

1. Check Balance
2. Cash withdraw
3. Cash deposit
4. Quit

*****?*****?

Enter your choice: 3

Enter the amount to deposit 5000
your Balance is 5000

~~Do you wish to have another Transaction?~~
~~(Y/N):~~

Your Balance is 5800

Do you wish to have another Transaction?
(Y/N):

***** Welcome to ATM service *****

1. Check Balance
2. Cash withdraw
3. Deposit cash
4. Quit

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Date:

your
Enter choice 1
your balance in RS : 5800

Do you wish to have another transaction?

xxxxxx welcome to ATM Service (Y/n):

- 1. Check Balance
- 2. Cash withdraw
- 3. Cash deposit
- 4. Quit

Enter your choice. 4

Thank you using ATM

xxxxxx welcome to ATM Service xxx

- 1. Check Balance
- 2. Cash withdraw
- 3. Cash deposit
- 4. Quit

xxxxxxxxxxxx?xxxxxxxxxxxx?

Enter your choice: n

Thank you using ATM

Do you to have another transaction?

(Y/n):

Thanks For using our ATM service.